SENSORY SCIENCE

SV294

DVD Recorder+ VCR

User's Guide

www.sensoryscience.com

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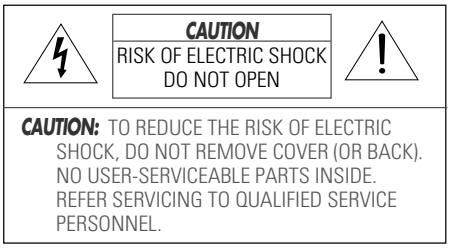
Important Safeguards


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.

WARNING TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
ATTENTION POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

WARNING:

Do not install this equipment in a confined space such as a bookcase or similar unit.

CLASS 1	**LASER PRODUCT**
KLASSE 1	**LASER PRODUKT**
LUOKAN 1	**LASER LAITE**
KLASS 1	**LASER APPARAT**
CLASSE 1	**PRODUIT LASER**

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

CAUTION:

This DVD Recorder+VCR employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the DVD Recorder+VCR require maintenance, contact an authorized service center. Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure. To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

CAUTION:

The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

FCC WARNING:

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

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REGULATORY INFORMATION: FCC Part 15

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC COMPLIANCE:

The responsible party for this product's compliance is: Sensory Science, 7835 East McClain Drive, Scottsdale, AZ 85260, USA.

SERIAL NUMBER:

The serial number is found on the back of the DVD Recorder+VCR. This number is for this unit only. You should record requested information here and retain this guide as a permanent record of your purchase.

Model No. _____

Serial No. _____

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE PRODUCT. RETAIN THIS MANUAL FOR FUTURE REFERENCE.

This product has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this product will protect you if you observe the following procedures for installation, use, and servicing.

This product does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

1 ***Read these instructions.***
All these safety and operating instructions should be read before the product is operated.

2 ***Keep these instructions.***
The safety, operating and use instructions should be retained for future reference.

3 ***Heed all warnings.***
All warnings on the product and in the operating instructions should be adhered to.

4 ***Follow all instructions.***
All operating and use instructions should be followed.

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5 ***Do not use this product near water.***
For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; or near a swimming pool; and other areas located near water.

6 ***Clean only with dry cloth.***
Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.

7 ***Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.***
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatuses (including amplifiers) that produce heat.

9 Make sure that rating of your household electricity supply matches that shown on the back of your product.

10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.

11 Only use attachments/accessories specified by the manufacturer.

12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/ product combination to avoid injury from tip-over.

13 Unplug this product during lightning storms or when unused for long periods of time.

14 Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as: Power-supply cord or plug is damaged; liquid has been spilled or objects have fallen into the product; the product has been exposed to rain or moisture, does not operate normally, or has been dropped.

15 Do not connect the product to the power supply if you have just moved it from a cold environment to a warm room. This can lead to condensation inside the product, which can damage it. Wait for approximately 2 hrs for it to reach room temperature.

16 Make sure the product is placed at least 4 inches (10 cm) apart from other home appliances or obstacles to ensure sufficient ventilation.

17 This product is designed to work continuously. Switching if off does not disconnect if from the power outlet. To disconnect if from the power outlet you have to unplug it.

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Overview

DVD, DVD+R, DVD+RW?

What is a DVD?

DVD (Digital Versatile Disc) is a storage medium that combines the convenience of the compact disc with the latest digital video technology. DVD video uses modern MPEG2 data compression technology that enables an entire feature film to be stored on a single five inch disc.

How good is the resolution of DVD compared with VHS?

The razor-sharp digital images have more than 500 lines of resolution at 720 pixels per line. This is more than twice as high as VHS and even better than laser disc quality. DVD picture quality is easily comparable to the digital masters produced in recording studios.

What is a DVD+RW?

DVD+ReWritable uses 'phase change' media, the same technology on which rewritable CDs are based. A high-performance laser is used to change the reflective properties of the recording layer; this process can be repeated more than a thousand times.

What is a DVD+R?

Unlike a DVD+RW disc, a DVD+R (write-once DVD) can only be written to once. If it is not finalized after a recording, further recordings can be added to it. Old recordings can be deleted but they can no longer be overwritten. The deleted recordings (titles) are marked 'deleted title'.

Before a DVD+R can be played in a DVD player, it must be finalized in the DVD Recorder+VCR. Once this process is complete, no further recordings can be added.

What can I do with my DVD Recorder+VCR?

Your DVD Recorder+VCR is a machine for recording and playing back digital video discs with 'two-way' compatibility with the universal DVD video standard. This means:

- existing DVD video discs can be played on the recorder.
- recordings made on your DVD Recorder+VCR can be played on other DVD video players and DVD-ROM drives.

Regional code

If the region number on your DVD disc does not correspond to the region number of this player, the disc cannot be played.

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Which discs you can use

The following discs can be used in your DVD Recorder+VCR:

Playback and recording

DVD+RW (Digital Versatile Disc + ReWritable)

DVD+R (Digital Versatile Disc + Write-Once)

Playback only

DVD Video (Digital Versatile Disc)

DVD-R (DVD-Recordable): These discs can only be played back if the recording was made in 'Video mode' and the recording was finalized.

DVD-RW (DVD-Rerecordable): These discs can only be played back if the recording was made in 'Video mode' and the recording was finalized.

Audio CD (Compact Disc Digital Audio)

CD-R (CD recordable) Audio/ MP3 files

CD-RW (CD rewritable) Audio/ MP3 files

- *Not all recordable CDs may be played by your player.*

Disc-related Terms

Title (DVD only)

The main film, accompanying feature content, or music album. Each title is assigned a title reference number enabling you to locate it easily.

Chapter (DVD only)

Sections of a movie or a musical piece that are smaller than titles. A title is composed of one or several chapters. Each chapter is assigned a number to enable you to easily locate the chapter you want. Depending on the disc, chapters may not be labeled.

Track (Audio CD only)

Sections of a movie or a musical piece on an audio CD. Each track is assigned a number, enabling you to easily locate the track you want.

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About DVD Recording

Notes on Recording

- The recording times shown are not exact because the DVD Recorder+VCR uses variable bit-rate video compression. This means that the exact recording time will depend on the material being recorded.
- When recording a TV broadcast, if the reception is poor or the picture contains interference, the recording times may be shorter.
- Discs recorded at high speeds (equal to or greater than 2X) may not be recognized.
- If you record still pictures or audio only, the recording time may be longer.
- The displayed times for recording and time remaining may not always add up to the exact length of the disc.
- The available recording time may decrease if you heavily edit a disc.
- When using a DVD+R disc, you can keep recording until the disc is full, or until you finalize the disc. Before you start a recording session, check the amount of recording time left on the disc.

Recording TV Audio Channels

The DVD Recorder+VCR can record one or two channel audio. For TV broadcasts, this usually means mono or stereo, but some programs are broadcast with a main and a SAP (Secondary Audio Program) audio channel. You can record either the main audio or the SAP audio.

Restrictions on Video Recording

- You cannot record copy-protected video using this DVD Recorder+VCR. Copy-protected video includes DVD-Video discs and some satellite broadcasts. If copy-protected material is encountered during a recording, recording will pause or stop automatically and an error message will be displayed on-screen.
- Video that is 'copy-once only' can only be recorded using DVD+RW discs with CPRM.

Copyright Notice

- Audio and video recordings you make using the DVD Recorder+VCR are for your personal use only. You may not sell, lend, or rent them to other people.
- This product incorporates copyright protection technology that is protected by method claims of certain U.S.patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision corporation. Reverse engineering or disassembly is prohibited.

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Precautions

Handling the Unit

When shipping the unit

The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packaged at the factory.

When setting up the unit

The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc.

To keep the surface clean

Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

Cleaning the Unit

To clean the cabinet

Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

To obtain a clear picture

The DVD Recorder+VCR is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality will be poor. Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.) For details, please contact your nearest dealer.

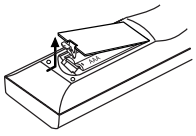
Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.

Distance: Within 23 ft (7 m) of the remote sensor.

Angle: Within 30° in each direction of the remote sensor.

Remote Control Battery Installation



Detach the battery cover on the rear of the remote control, and insert two AAA batteries. Make sure the polarities (+ and -) are aligned correctly.

Caution

Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

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Notes on Discs

Handling Discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface. Do not stick paper or tape on the disc.

Storing Discs

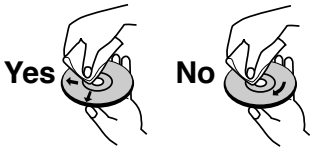
After playing, store the disc in its case.

Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

Cleaning Discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center outward.

Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.



About Symbols

About the ⊘ Symbol

'⊘' may appear on the TV screen during operation. This icon means the function explained in this User's Guide is not available on that specific disc.

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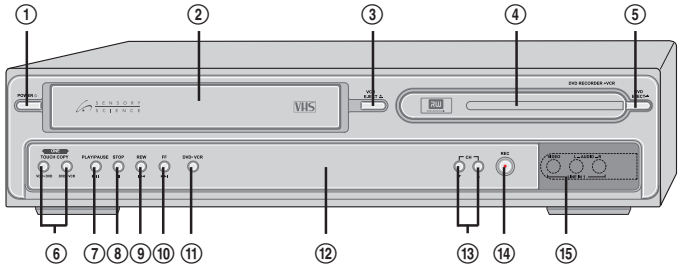
Identification of Controls

Front Panel



① ***POWER***
Turns the DVD Recorder+VCR on and off. Lock/Unlock the front panel and Remote control by pressing and holding it over 5 seconds.

② ***Cassette Compartment (VCR deck)***
Insert a video cassette here.

③ ***EJECT (VCR)***
Ejects the tape in the VCR deck.

④ ***Disc Tray (DVD deck)***
Insert a disc here.

⑤ ***EJECT (DVD)***
Opens or closes the disc tray.

⑥ ***ONE TOUCH COPY***
Copies from DVD to VCR (or from VCR to DVD).

⑦ ***PLAY/PAUSE***
Starts playback of a disc or tape. Pauses playback or recording temporarily.

⑧ ***STOP***
Stops playback.

⑨ ***REW***
DVD: Skips to previous chapter.
VCR: Rewinds the tape during Stop mode. Press during Play mode for fast reverse picture search.

⑩ ***FF***
DVD: Skips to next chapter.
VCR: Advances the tape during Stop mode. Press during Play mode for fast forward picture search.

⑪ ***DVD/VCR***
Toggles control between the DVD deck and the VCR deck.

⑫ ***Front Panel Display***
Shows the current status of the DVD Recorder+VCR.

⑬ ***CH ▼/▲***
Scans up or down through memorized channels. Also moves up and down in DVD navigation menus.

⑭ ***REC***
Starts recording. Press repeatedly to set the recording time. Lights red when the DVD Recorder+VCR is recording.

⑮ ***LINE 1 (VIDEO, L-AUDIO-R)***
Connects to the audio/video output of an external source (VCR, Camcorder, etc.).

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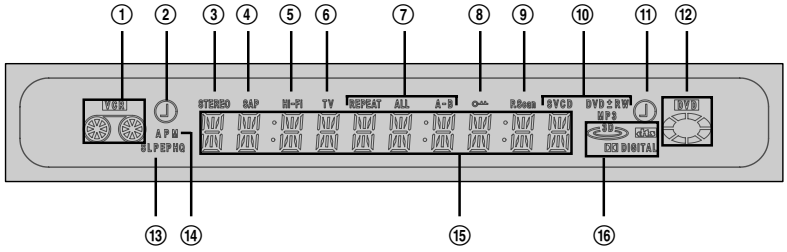
Front Panel Display



① Indicates a VHS tape is inserted in the VCR deck.

② Circle : Indicates the VCR is recording.
Clock : Indicates a VCR Timer Recording is set.

③ Indicates that a stereo broadcast is being received.

④ Indicates when a Second Audio Program (SAP) broadcast is being received.

⑤ Indicates when the DVD Recorder+VCR is playing or recording a tape with Hi-Fi sound.

⑥ Indicates the DVD Recorder+VCR is in TV mode (as set by the TV/VCR button).

⑦ Indicates the current Repeat mode.

⑧ Indicates when the DVD Recorder+VCR is locked.

⑨ Indicates when the DVD Recorder+VCR is outputting the video signal in Progressive Scan mode.

⑩ ***Disc Type indicators***
Indicates the type of disc loaded.

⑪ Circle : Indicates a DVD+R(+RW) is recording.
Clock : Indicates a DVD Timer recording is set.

⑫ Indicates a disc is inserted in the DVD deck.

⑬ Indicates the current Recording mode.

⑭ Indicates AM or PM.

⑮ ***Front Panel Display Message***
Indicates clock, total playing time, elapsed time, remaining time, title number, chapter/track number, channel, VCR counter, etc.

⑯ DTS: Indicates a DVD is playing with a DTS soundtrack.
Dolby : Indicates a DVD is playing with a Dolby Digital soundtrack.

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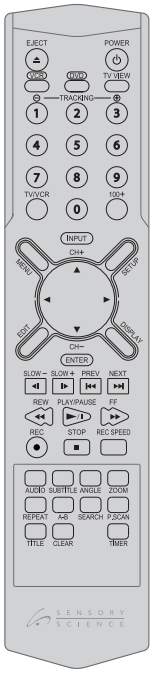
Remote Control



POWER	Turns the DVD Recorder+VCR on and off.
EJECT	- Opens and closes the disc tray in DVD mode. - Ejects the tape in the VCR deck in VCR mode.
TV VIEW	Switches the view on your TV to the DVD Recorder+VCR tuner.
DVD	Selects DVD mode.
VCR	Selects VCR mode.
1 2 3 4 5 6 7 8 9 0 100+	- Selects numbered options in menus. - Selects TV channels. - Manually adjusts tracking.
TV/VCR	Switches between the DVD Recorder+VCR tuner and your TV tuner.
INPUT	Switches the DVD Recorder+VCR input to Tuner, LINE1, LINE2
MENU	Accesses DVD disc menus.
SETUP	Displays or exits the Setup menu.
DISPLAY	Displays information about the currently loaded disc, VHS tape, or TV channel.
EDIT	Edits chapters or splits titles of DVD+R(+RW) discs.
CH+ CH–	- ◄ ►▲▼ : Selects menu options. - CH(+/–) : Selects channels.
ENTER	Confirms menu selections.
SLOW – SLOW +	Increases or decreases the slow motion speed when playing a DVD or VHS tape.
PREV NEXT	Skips to the next or previous chapter/track.
FF REW	- DVD: Searches backward/forward. - VCR: Rewinds/advances during Stop mode. Press during Play mode for fast reverse/forward picture search.
REC	Starts recording. Press repeatedly to set the recording time. For more details, Refer to One Touch Record (OTR) on page 46.
PLAY/PAUSE	- Starts playback. - Pauses playback or recording temporarily. Press again to exit Pause mode.
STOP	Stops playback or recording.

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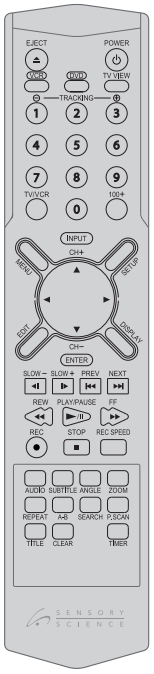

REC SPEED	Selects Recording mode: - DVD : HQ (1hr), SP (2hrs), EP (4hrs) or SLP (6hrs). - VCR : SP or SLP.
AUDIO	Selects an audio language (DVD), audio channel (CD) or audio type (TV).
SUBTITLE	Selects a subtitle language, if available.
ANGLE	Selects a DVD camera angle, if available.
ZOOM	Enlarges the DVD video image.
REPEAT	Repeats the current chapter, track, title or the entire disc.
A-B	Repeats playback between two points (A and B).
SEARCH	Searches for a specific title or a chapter.
P.SCAN	Press and hold for 3 seconds to switch between Progressive Scan and Interlace Scan mode.
TITLE	Displays a disc's Title menu, if available.
CLEAR	Resets the tape counter in VCR mode.
TIMER	Displays the Timer Recording menu.

Progressive Scan Mode

- *If your TV supports Progressive Scan, you can view high quality video by setting the DVD Recorder+VCR to Progressive Scan mode. If your TV does not support Progressive Scan, do NOT change to Progressive Scan mode.*
  If you do so accidentally, press and hold the [P.SCAN] key for 3 seconds to restore normal viewing.

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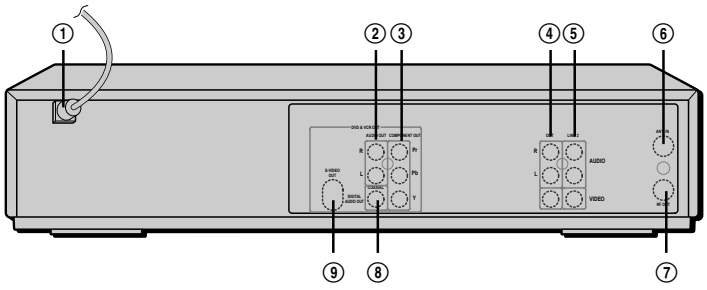
Rear panel



① ***AC Power Cord***
Plug into a power outlet.

② ***AUDIO OUT (L, R)***
Connect to a TV or other equipment with audio inputs.

③ ***COMPONENT/PROGRESSIVE VIDEO OUT (Y Pb Pr)***
Connect to a TV with Component Video (Y Pb Pr) inputs.

④ ***AV OUT (VIDEO, L-AUDIO-R)***
Connect to a TV with video and audio inputs.

⑤ ***LINE2 (VIDEO, L-AUDIO-R)***
Connect to the audio/video outputs of an external source (VCR, Camcorder, etc.).

⑥ ***RF IN (FROM ANT.)***
Connect to your antenna or cable TV outlet.

⑦ ***RF OUT (TO TV)***
Connect to a TV with an RF coaxial input.

⑧ ***COAXIAL (Digital Audio Out)***
Connect to an amplifier with a coaxial digital audio input.

⑨ ***S-VIDEO OUT***
Connect to a TV with an S-Video Input.

Caution
- *Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the DVD Recorder+VCR.*

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Connections

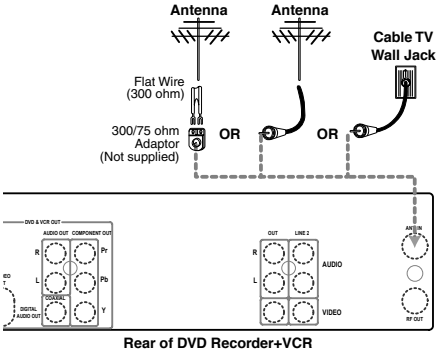
- *There are a variety of ways to connect the DVD Recorder+VCR to your TV and other equipment. Use only one of the connections described below. Whichever TV connection you use will work with all input sources.*
- *Please refer to the manuals for your TV, VCR, stereo system, or other devices as necessary to make the best connections.*
- *For better sound reproduction, connect the DVD Recorder+VCR's AUDIO OUT jacks to the audio in jacks of your amplifier, receiver, stereo, or audio/video equipment. See 'Connecting an Amplifier/Receiver' on page 18.*

Caution

- *Make sure the DVD Recorder+VCR is connected directly to the TV, and the TV is set to the correct video input.*
- *Do not connect the DVD Recorder+VCR's AUDIO OUT jack to the phono in jack (record deck) of your audio system.*
- *Do not connect the DVD Recorder+VCR via your VCR. The DVD image could be distorted by the copy protection system.*

Connecting Antenna/Cable

1. Disconnect the antenna/cable from the rear of your TV.
2. Connect this cable to the jack marked RF IN (FROM ANT.) on the rear panel of the DVD Recorder+VCR.



Rear of DVD Recorder+VCR

Cable Service Without Cable Box

If your cable wire is connected to your TV without a converter or descrambler box, unscrew the wire from your TV and attach it to the RF IN (FROM ANT.) jack on the rear panel of the DVD Recorder+VCR.

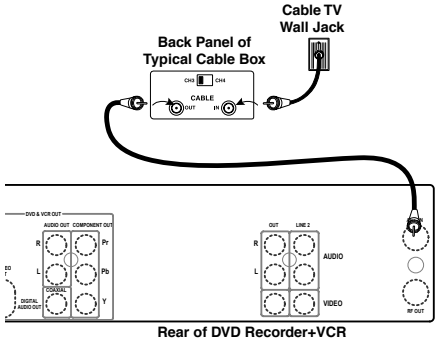
Use the supplied coaxial cable to connect between the DVD Recorder+VCR's OUT (TO TV) jack and the antenna input jack on your TV. With this connection, you can receive all midband, superband, and hyperband channels (all cable channels).

Cable Service With Cable Box

If a cable box is required in your cable system, follow the instructions shown at right. This hookup permits both TV and DVD Recorder+VCR operation.

To view or record a CATV channel:

1. Tune the TV to the correct video input channel.
2. Set the DVD Recorder+VCR to the output channel of the cable box using the [CH ▲/▼] or the [0-9] keys on your DVD Recorder+VCR (e.g., CH3).
3. Select the channel you wish to view on the cable box.



Rear of DVD Recorder+VCR

- *If you are using a cable box to tune channels, it is not necessary to run Auto Channel Search as indicated on page 23.*

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Connecting a TV

Choose one of the following TV connections, depending on the capabilities of your equipment.

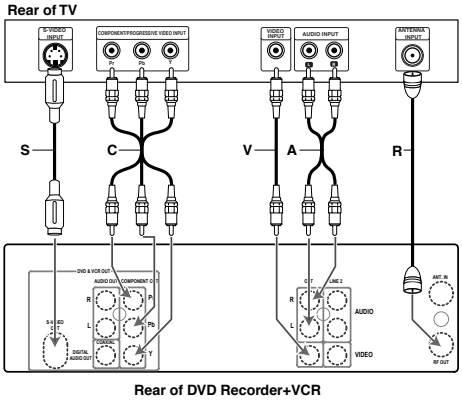
All video signals are available from all video outputs. *That means that whichever TV connection you use, it will work with all input sources, including VHS out of the Component/Progressive Video Output.*

RF Coaxial Connection

Connect the RF OUT (TO TV) jack on the DVD Recorder+VCR to the antenna in jack on your TV using the supplied coaxial cable (R). If you use this connection, tune your TV to the DVD Recorder+VCR's RF output channel (CH 3 or 4).

How to set the DVD Recorder+VCR's RF output channel

Press [SETUP] and select Installation → Modulator Out to change the RF out channel. For details refer to page 24.



Audio/Video Connection

1. Connect the VIDEO OUT jack on the DVD Recorder+VCR to the video in jack on your TV using the supplied video cable (V).
2. Connect the Left and Right AUDIO OUT jacks from the DVD Recorder+VCR to the left/right audio in jacks on your TV using the supplied audio cables (A).

S-Video Connection

1. Connect the S-VIDEO OUT jack on the DVD Recorder+VCR to the S-Video in jack on your TV using an S-Video cable (S).
2. Connect the Left and Right AUDIO OUT jacks from the DVD Recorder+VCR to the left/right audio in jacks on your TV using the supplied audio cables (A).

Component Video Connection

1. Connect the COMPONENT/PROGRESSIVE VIDEO OUT jacks on the DVD Recorder+VCR to the corresponding input jacks on your TV using a Y Pb Pr cable (C) if the Component Video jacks (Y, Pb, Pr) are available on your TV.
2. Connect the Left and Right AUDIO OUT jacks from the DVD Recorder+VCR to the left/right audio in jacks on your TV using the supplied audio cables (A).

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Progressive Scan Connection

- If your television is a high-definition or 'digital ready' television, you may take advantage of the DVD Recorder+VCR's Progressive Scan output for the highest video resolution possible.
- If your TV does not accept the Progressive Scan format, the picture will appear scrambled.

1 Connect the COMPONENT/PROGRESSIVE VIDEO OUT jacks on the DVD Recorder+VCR to the corresponding in jacks on your TV using an optional Y Pb Pr cable (C).

2 Connect the Left and Right AUDIO OUT jacks from the DVD Recorder+VCR to the left/right audio in jacks on your TV using the supplied audio cables (A).

- *Be sure to set the DVD Recorder+VCR to Progressive Scan mode by pressing and holding [P.SCAN] for 3 seconds (or changing the Scan Mode in the Setup Menu; see page 27).*
- *Progressive Scan does not work with the RF, Audio/Video or S-Video connections.*

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Connecting an Amplifier/Receiver

Connecting to an amplifier equipped with two channel analog stereo or Dolby Pro Logic II/Pro Logic

Connect the Left and Right AUDIO OUT jacks on the DVD Recorder+VCR to the left and right audio in jacks on your amplifier, receiver, or stereo system, using the supplied audio cables (A).

Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2, or DTS)

1 Connect the DVD Recorder+VCR's DIGITAL AUDIO OUT jack (COAXIAL X) to the corresponding in jack on your amplifier. Use an optional digital coaxial audio cable.

2 You will need to activate the DVD Recorder+VCR's digital output; see 'AUDIO Settings' on page 28.

Digital Multi-Channel Sound?

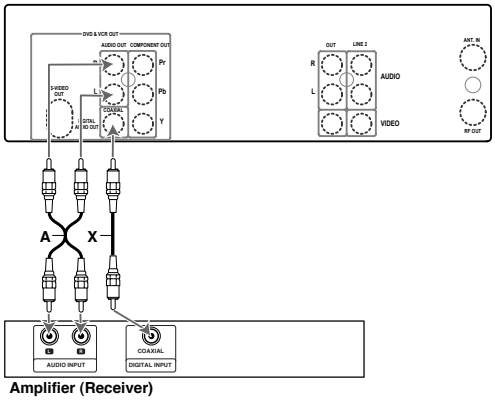
A digital multi-channel connection provides the best sound quality. For this you need a multi-channel audio/video receiver that supports one or more of the audio formats supported by your DVD Recorder+VCR (MPEG 2, Dolby Digital, and DTS). Check the receiver manual and the logos on the front of the receiver.

- *Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected.*

- *If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.*
- *5.1 channel digital surround sound via the digital connection can only be obtained if your receiver is equipped with a digital multi-channel decoder.*
- *To see the audio format of the current DVD on the on-screen display, press [AUDIO].*

The DVD Recorder+VCR does not perform internal (2- channel) decoding of DTS sound tracks. To enjoy DTS multi-channel surround, you must connect the DVD Recorder+VCR to a DTS compatible receiver via one of the DVD Recorder+VCR's digital audio outputs.

Rear of DVD Recorder+VCR



Amplifier (Receiver)

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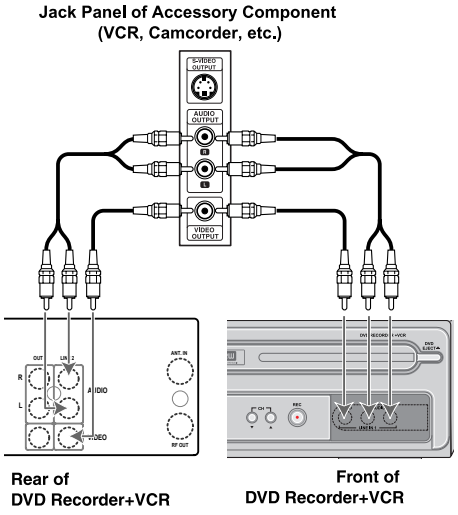
Connecting Optional Equipment

To receive audio/video signals from other equipment, connect the LINE1 or LINE2 jacks on the DVD Recorder+VCR to the audio/video out jacks on your external component, using optional audio/video cables.



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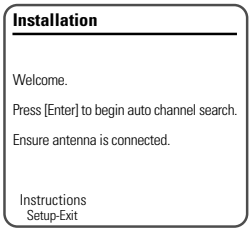
Initial Installation

Initial Installation

After successfully connecting your DVD Recorder+VCR to your TV and other devices, this chapter will show you how to complete the initial installation.

- *You must follow the initial installation process to set the time, date, channels, and language preferences for the DVD Recorder+VCR.*

1 A 'Welcome' message is displayed on the screen. Make sure the RF cable from your antenna or cable TV jack is connected.



2 Select the desired language for the on-screen menu using [▲/▼]. Press [ENTER] to confirm.

3 Select the desired disc menu language using [▲/▼]. Press [ENTER] to confirm.

4 Select the desired disc playback audio language using [▲/▼]. Press [ENTER] to confirm.

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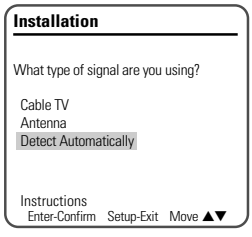
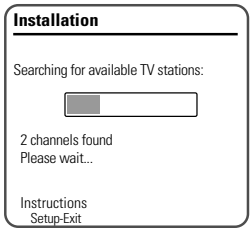
5 Select the desired disc playback subtitle language using [▲/▼]. Press [ENTER] to confirm.

6 Select the desired signal type using [▲/▼]. Press [ENTER] to confirm.



SETUP

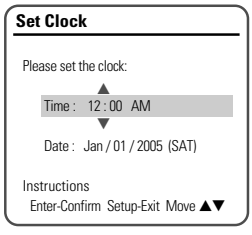
7 The DVD Recorder+VCR detects channels automatically and stores them in memory.



8 After finishing Auto Channel Search, set the clock.

9 Use [◄/►] to move left/right and use [▲/▼] to change the settings.

10 After setting the clock, press [ENTER] to confirm. If you cancel the process during Initial Installation, you should repeat this procedure.



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Initial Setup

Setup Menu Overview

The DVD Recorder+VCR Setup menu includes six categories, including: Installation, Recording Options, Languages, Preferences, System Info, and Restore Defaults. Press [SETUP] and [◄/►] on the remote control to view the first and second levels of the Setup menu.

Menu Navigation

1. Press [SETUP].

   The Setup menu appears.
2. Use [◄/►] to select the desired category.
3. While the desired category is selected, press [▲/▼] to move to the second level.
4. Press [ENTER] to move to the third level.
5. Use [▲/▼] to select the desired setting, then press [ENTER] to confirm your selection.

   Some items require additional steps. Press [SETUP] at any time to return to the previous menu.
6. Press [SETUP] to exit the Setup menu.

INSTALLATION Settings

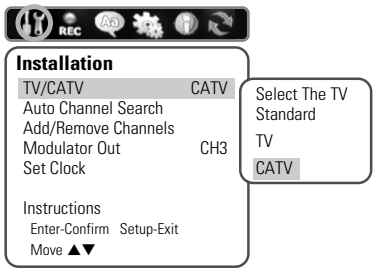
Tuning Band

1. Press [SETUP].

   The Setup menu appears.
2. Use [◄/►] to select 'Installation'.
3. While 'Installation' is selected, press [▼] to select 'TV/CATV'.
4. Press [ENTER] to move to the second level.
5. Use [▲/▼] to select TV or CATV, then press [ENTER].

   TV: If you are using a standard antenna to receive channels.

   CATV: If you are using basic cable to receive channels.



- *If you are receiving channels from a cable box or satellite receiver connected to the LINE1 or LINE2 inputs, there is no need to set Tuning Band or search for channels. Set the DVD Recorder+VCR to its LINE1 or LINE 2 input and select the desired channel on your cable box or satellite receiver.*

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Auto Channel Search

The DVD Recorder+VCR has a frequency synthesized tuner capable of receiving up to 181 channels. These include VHF channels 2-13, UHF channels 14-69 and CATV channels 1-125.

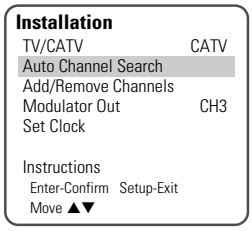
Preparation:

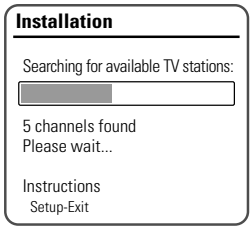
Connect the DVD Recorder+VCR to the desired type of antenna or cable TV system, as shown in 'Connecting Antenna/Cable' on page 15.

1. Follow steps 1-2 as shown under Tuning Band.
2. While 'Installation' is selected, press [▲/▼] to select 'Auto Channel Search'.
3. Press [ENTER] to begin the channel search.

   The tuner will automatically search for all available channels in your area and place them in the tuner's memory.

- *After Auto Channel Search is complete, follow the instructions above to make sure that Tuning Band is set correctly (TV or CATV).*



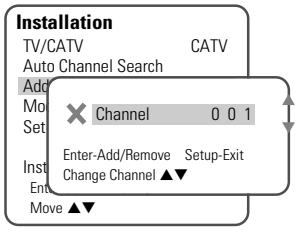


SETUP

Add/Remove Channels

This feature allows you to manually add or delete channels from your channel list.

1. Follow steps 1-2 as shown under Tuning Band.
2. Use [▲/▼] to select 'Add/Remove Channels'.
3. Press [ENTER]. The Channel Edit menu appears.
4. Use [▲/▼] to select a channel then toggle the add/delete selection by pressing [ENTER].
5. Press [SETUP] to exit the Channel Edit menu.



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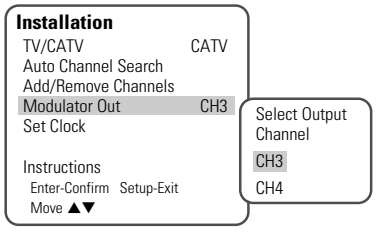
Modulator Out

This feature allows you to set the RF Output channel to your TV (you only need to set this if you are using the RF Out connection to your TV).

1. Follow steps 1-2 as shown under Tuning Band.
2. Use [▲/▼] to select 'Modulator Out'.
3. Press [ENTER] to move to the second level.
4. Use [▲/▼] to set the Modulator Out channel to 'CH3' or 'CH4'.
5. Press [ENTER] to confirm.

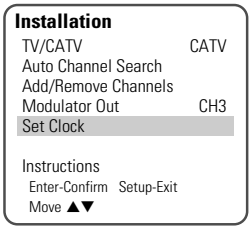


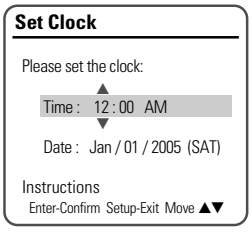
Set Clock

1. Follow steps 1-2 as shown under Tuning Band.
2. Use [▲/▼] to select 'Set Clock'.
3. Press [ENTER]. The Set Clock menu appears.
4. Enter the date and time.

   ◄ /► (left/right): Moves the cursor to the previous or next column.

   ▲/▼ (up/down): Changes the setting at the current cursor position.
5. Press [ENTER] to confirm your setting, then press [SETUP] to exit the Setup menu.





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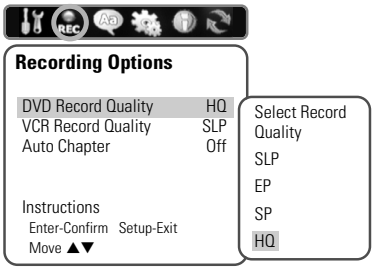
RECORDING OPTIONS Settings

DVD Record Quality

You can set the default DVD recording quality to: HQ (High Quality - 1 hr/disc), SP (Standard Quality - 2 hrs/disc), EP (Average Quality - 4 hrs/disc), or SLP (Low Quality - 6 hrs/disc).



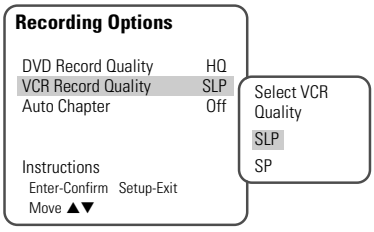
1. Press [SETUP].
   The Setup menu appears.
2. Use [◄/►] to select 'Recording Options'.
3. While 'Recording Options' is selected, press [▼] to select 'DVD Record Quality'.
4. Press [ENTER] to move to the second level.
5. Use [▲/▼] to to select the desired Record Quality (HQ, SP, EP, or SLP).
6. Press [ENTER] to confirm your selection, then press [SETUP] to exit the menu.

SETUP

VCR Record Quality

You can set the default VCR recording quality to SP (Standard Play) or SLP (Super Long Play). SP is higher quality, but SLP provides 3 times the recording time; e.g., a 2 hour tape will record for 6 hours in SLP mode.

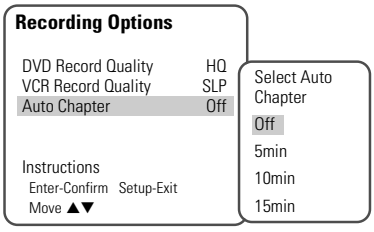
Follow the same procedure as the DVD Record Quality.



Auto Chapter

During recording, chapter markers are added automatically at fixed intervals. You can set this interval to 5 minutes, 10 minutes or 15 minutes. To turn off automatic chapter marking, select 'Off'.

Follow the same procedure as the DVD Record Quality.



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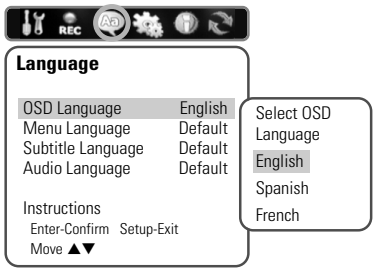
LANGUAGE Settings

OSD Language

Select a language for the DVD Recorder+VCR Setup menu and on-screen displays.

1. Press [SETUP]. The Setup menu appears.
2. Use [◀] and [▶] to select 'Language'.
3. While 'Language' is selected, press [▼] to select 'OSD Language'.
4. Press [ENTER] to move to the second level.
5. Use [▲/▼] to select the desired language.
6. Press [ENTER] to confirm your selection, then press [SETUP] to exit the menu.

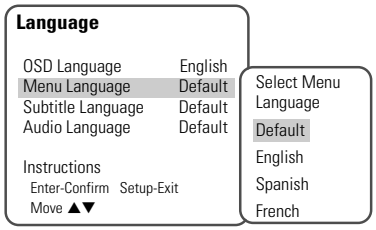


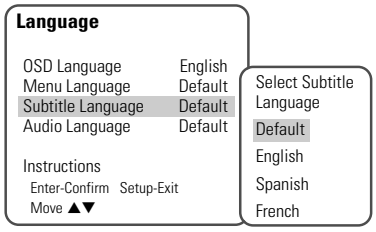
Menu/Subtitle/Audio Language

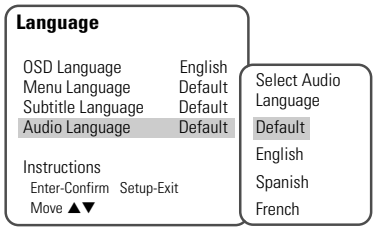
Select your preferred language for Disc Menus, Subtitles, and Audio soundtracks.

Default : The disc's default language is selected.

Follow the same procedure as the OSD Language.







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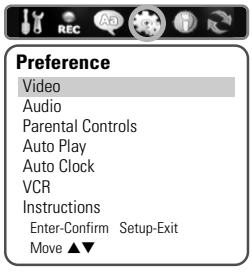
PREFERENCE / Video Settings

1 Press [SETUP].

2 Use [◄/►] to select 'Preference'.

3 While 'Preference' is selected, press [▼] to select 'Video'.

3 Press [ENTER]. The 'Video' submenu is displayed.



TV Aspect Ratio

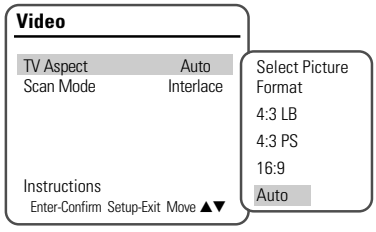
1 Use [▲/▼] to select 'TV Aspect' while the 'Video' submenu is displayed.

2 Press [ENTER] or [►] to go to the second level.

3 Use [▲/▼] to select the desired TV Aspect.

4 Press [ENTER] to confirm your selection.

5 Press [SETUP] to exit the menu.



4:3 LB : Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.

4:3 PS : Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Both sides of the picture are cut off.

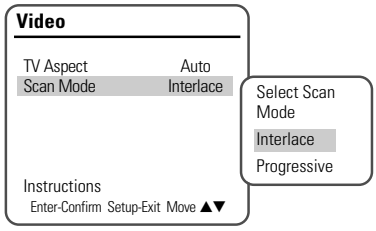
16:9 : Select when a 16:9 wide screen TV is connected.

Auto : Convert to the appropriate aspect ratio automatically.

Scan Mode

Progressive Scan Video provides the highest picture quality with reduced flickering.

- If you are using the COMPONENT/PROGRESSIVE VIDEO OUT jacks, but are connecting the DVD Recorder+VCR to a standard (analog) television, set Scan Mode to Interlace.
- If you are using the COMPONENT/PROGRESSIVE VIDEO OUT jacks for connection to a TV or monitor that is compatible with a Progressive Scan signal, set Scan Mode to Progressive.



Follow the same procedure as TV Aspect Ratio to change the Scan Mode.

Caution

- *Once the Progressive Scan setting is entered, an image will only be visible on a Progressive Scan compatible TV or monitor. Press and hold [P.SCAN] for 3 seconds to return to Interlace Scan mode.*

SETUP

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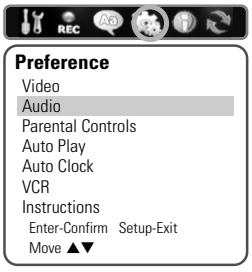
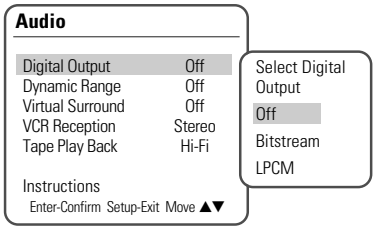
PREFERENCE / Audio Settings

Follow the same procedure as Video Settings to select Audio Settings.



Digital Output

1. Use [▲/▼] to select 'Digital Output' while the Audio submenu is displayed.
2. Press [ENTER] or [▶] to go to the second level.
3. Use [▲/▼] to select the desired digital output type.
4. Press [ENTER] to confirm your selection.
5. Press [SETUP] to exit the menu.



Off

No signal will be output from the Digital Audio Out jacks.

LPCM

Select when connected to a 2 channel digital stereo amplifier. The DVD Recorder+VCR's digital audio signal will be output in the PCM 2ch format when you play a DVD (or VHS tape) recorded with a Dolby Digital (only for DVD) or MPEG soundtrack. If the DVD is recorded with a DTS sound track then no sound will be heard.

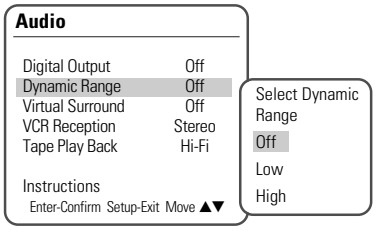
Bitstream

Select when connected to a Dolby Digital or DTS decoder (or an amplifier or other equipment with a Dolby Digital or DTS decoder).

Dynamic Range

While watching DVD movies, you may wish to compress the dynamic range of the audio output (the difference between the loudest and quietest passages). This allows you to listen to a movie at a lower volume without losing clarity of sound. Set 'Dynamic Range' to Low or High for this effect.

Follow the same procedure as 'Digital Output' to set the Dynamic Range.



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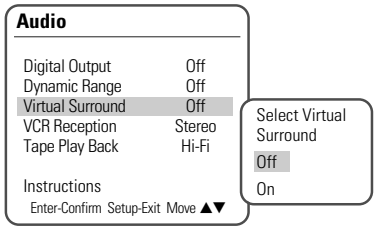
Virtual Surround

You can enjoy a simulated 3D effect from two speakers by setting Virtual Surround to On.

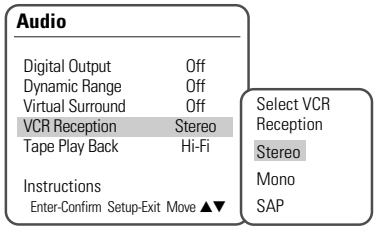
Follow the same procedure as 'Digital Output' to set the Virtual Surround option.



VCR Reception

Select your desired audio source for VCR recording (Stereo, Mono, or SAP).

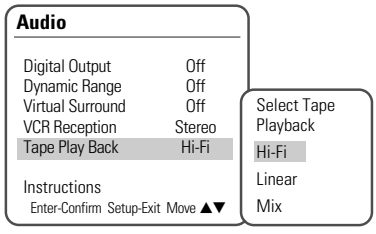
Follow the same procedure as 'Digital Output' to set the VCR Reception option.



Tape Play Back

Select your desired audio signal for VHS tape playback (Hi-Fi, Linear, or Mix).

Follow the same procedure as 'Digital Output' to change the Tape Play Back option.



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PREFERENCE / Parental Controls

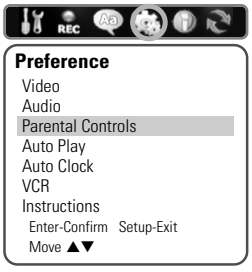
Set Parental Level

The Parental Controls feature allows you to prevent DVDs from being played based on their ratings or to have certain discs played with alternative scenes. You can set the parental level from 1 to 8.

1 Press [SETUP].

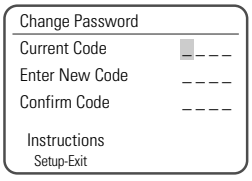
2 Use [◄/►] to select 'Preference'.

3 While 'Preference' is selected, press [▼] to select 'Parental Controls'.

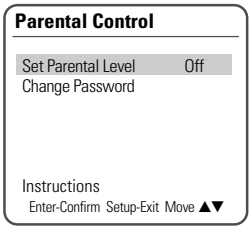


4 The Password Input dialog will appear. Enter a 4-digit password using the 0-9 buttons. If this is the first time you have entered a password, you will be prompted to enter the password again to confirm it.

- *The initial password is '0000'. You must enter this password before you can change the Parental Level.*

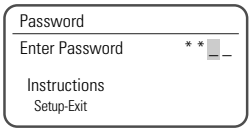


5 After setting the password, press [ENTER] while 'Set Parental Level' is displayed.



6 Enter your new password.

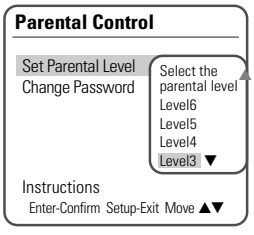
- *Set the new password to something other than '0000'.*



7 Use [▲/▼] to select the desired parental level and press [ENTER] to confirm.

Off : If you select Unlock, the Lock feature is not active. All discs will play in full.

Level 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the DVD Recorder+VCR, all scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.



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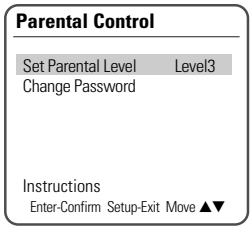
8 Press [ENTER] to confirm your rating selection, then press [SETUP] to exit the menu.



Change Password

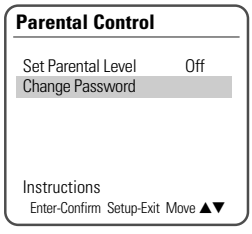
1 While 'Preference' is selected, press [▼] to select 'Parental Controls'.

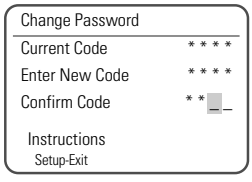
2 Press [ENTER]. The 'Parental Controls' submenu appears.

3 Use [▲/▼] to select 'Change Password' then press [ENTER].

4 The Change Password submenu appears. Enter your current 4-digit password then press [ENTER].

5 Enter a new 4-digit password, then press [ENTER]. Re-enter the new password to confirm, press [ENTER].





- ***Master Password :*** *If you forget your password, press 3,3,0,8 on the remote control and then press [ENTER].*
- *Set the new password to something other than '0000'.*

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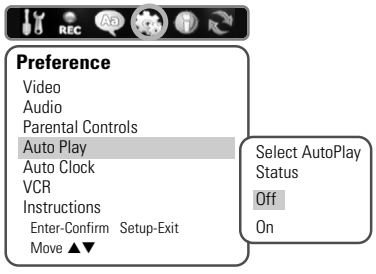
Various PREFERENCE Settings

AutoPlay

AutoPlay enables the DVD Recorder+VCR to skip the opening ads and previews at the beginning of a DVD and play the DVD automatically when it is inserted in the tray.

1. Use [▲/▼] to select 'AutoPlay'.
2. Press [ENTER] or [▶] to go to the second level.
3. Use [▲/▼] to set the AutoPlay Status.
4. Press [ENTER] to confirm.

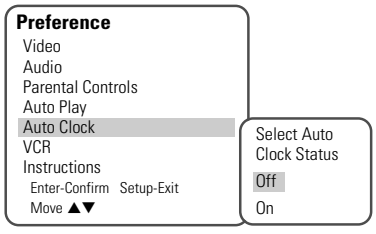
Occasionally AutoPlay may play an incorrect title. If this happens, turn AutoPlay off, reload the disc, and select the desired title in the DVD's disc menu.



Auto Clock

Auto Clock enables the DVD Recorder+VCR to set the clock automatically whenever it is in Standby mode (plugged in but powered off).

Follow the same procedure as 'AutoPlay' to set the 'Auto Clock' status.



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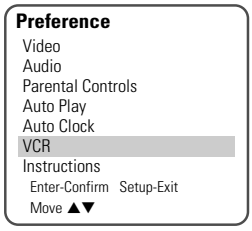
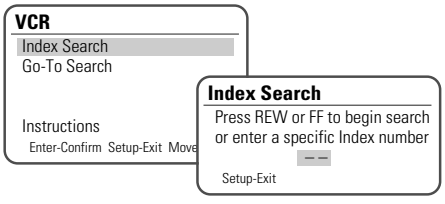
VCR

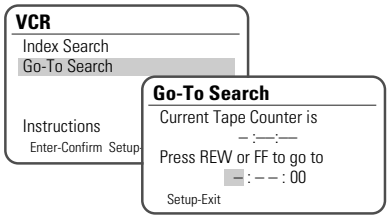
This feature enables you to search for Index marks or specific times on your VHS tapes.



1. While 'Preference' is selected, press [▼] to move to the second level.
2. Use [▲/▼] to select 'VCR'.
3. Press [ENTER] to display the submenu.
4. Select 'Index Search' or 'Go-To Search'.
5. If you select 'Index Search' and press [ENTER], a submenu appears. Use [▲/▼] to select the index number you want to search and press [REW] or [FF].
6. If you select 'Go-To Search' and press [ENTER], a submenu appears. Use [▲/▼] to change the time counter number and press [REW] or [FF].

- *The VCR menu is activated only when a video cassette tape is inserted.*





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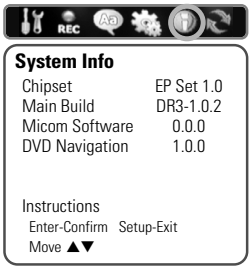
System Information

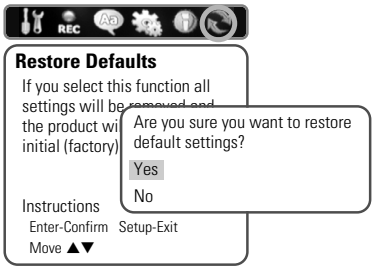
System Information helps service personnel identify key firmware information about your DVD Recorder+VCR in case service is required.



Restore Defaults

If you wish, you can reset the DVD Recorder+VCR to its original factory settings.

1. Press [SETUP].
2. Use [◄/►] to select 'Restore Defaults'.
3. Press [ENTER].
4. The Initialize menu will appear. Use the [▲/▼] buttons to select 'Yes' and press [ENTER].



- *Some options cannot be reset, including Parental Controls, Password, and Country Code.*
- *After Restoring Defaults the unit reboots automatically and the Installation menu appears. You must set the country, language, channel, and clock settings again.*

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On-Screen Display Overview

The On-Screen Display provides feedback on the status of the DVD Recorder+VCR and/or the currently loaded disc or tape. To access the On-Screen Display (or OSD), press the [DISPLAY] button.

Displaying Disc Information

To display information about the currently loaded disc or tape:

On-screen display operation

1. Press [DISPLAY] repeatedly to display/change the information displayed on-screen.
2. To remove the on-screen display, press [DISPLAY] repeatedly until it disappears.
   See the descriptions below for detailed explanations of the on-screen displays for each media type.

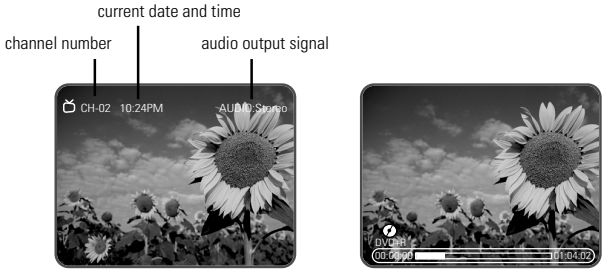
• *Some discs may not provide all the features shown in the on-screen display examples.*

Temporary Feedback Icons

⃠ Action prohibited or not available

Displaying TV Information

While watching TV, press [DISPLAY] to display/remove the on-screen display.
If no rewritable DVD disc is inserted, you would see a screen like the following:
If a DVD+R or DVD+RW disc is inserted, the disc information is displayed at the first key press. If you press [DISPLAY] again then the TV information is displayed.



Changing TV Channels

If no disc is playing, you can change TV channels using the [0-9] or [CH +/-] buttons on the remote control or [CH ▲/▼] buttons on the front panel.

• *Antenna channels are numbered 2 through 69. Cable channels are numbered 1 through 125.*

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Changing the TV Audio Channel

Some TV programs are broadcast with both a main and a Secondary Audio Program (SAP). You can change the TV audio using the [AUDIO] button.

Press [AUDIO] repeatedly to change the TV audio, according to the Broadcast audio signal as shown below.

- ***STEREO+SAP Audio Signal***
  Stereo → Mono (No display) → SAP → Stereo
- ***STEREO Audio Signal***
  Stereo → Mono (No display) → Stereo
- ***SAP Audio Signal***
  Mono → SAP → Mono
- ***MONO Audio Signal***
  Mono (No display)

The current audio channel is displayed on-screen.

- If SAP is selected, but there is no SAP channel being broadcast, you will still hear the main audio channel.
- If the sound is poor quality when set to Stereo, you can often improve it by changing to Mono.
- When an external input is selected, the audio channel can be switched only to Stereo.

OSD Menu Options for DVD

During DVD playback, press [DISPLAY] to show information about the current disc. While the disc information is displayed, press [DISPLAY] again to show the disc remaining time.

Title

Shows the current title number and total number of titles, and skips to the desired title number.

1. Press [DISPLAY] during playback. The on-screen display appears on the TV screen.
2. Use [▲▼] to select the 'Title' icon on the on-screen display. Press [ENTER] to display a submenu.
3. Use [▲▼] to change the numbers.
4. Press [ENTER] to confirm.

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Chapter

Shows the current chapter number and total number of chapters, and skips to the desired chapter number.

1. Press [DISPLAY] during playback. The on-screen display appears on the TV screen.
2. Use [▲▼] to select the 'Chapter' icon on the on-screen display. Press [ENTER] to display a submenu.
3. Use [▲▼] to change the numbers.
4. Press [ENTER] to confirm.

Angle

Shows the current angle number and total number of angles, and changes the angle number.

1. Press [DISPLAY] during playback. The on-screen display appears on the TV screen.
2. Use [▲▼] to select the 'Angle' icon on the on-screen display. Press [ENTER] to display a submenu.
3. Use [▲▼] to change the numbers.
4. Press [ENTER] to confirm.

Audio

Shows the current audio soundtrack language, encoding method, and channel number, and changes the setting.

1. Press [DISPLAY] during playback. The on-screen display appears on the TV screen.
2. Use [▲▼] to select the 'Audio' icon on the on-screen display. Press [ENTER] to display a submenu.
3. Use [▲▼] to change the numbers.
4. Press [ENTER] to confirm.

Subtitle

Shows the current subtitle language, and changes the setting.

1. Press [DISPLAY] during playback. The on-screen display appears on the TV screen.
2. Use [▲▼] to select the 'Subtitle' icon on the on-screen display. Press [ENTER] to display a submenu.
3. Use [▲▼] to change the numbers.
4. Press [ENTER] to confirm.

Elapsed

Shows the elapsed playing time, and skips to the desired time.

1. Press [DISPLAY] during playback. The on-screen display appears on the TV screen.
2. Use [▲▼] to select the 'Elapsed' icon on the on-screen display. Press [ENTER] to search by time. The submenu appears.
3. Use [▲▼] to change the numbers and use [◄ ►] to move left or right.
4. Within 7 seconds, press [ENTER] to confirm the start time. Playback starts from the selected time on the disc.

- *For the title recorded without DVD navigation information, such as the one from broadcast or line input, "Elapsed" function does not work.*

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DVD Playback

Playing a DVD

1 Press the [DVD] button to set the remote control to operate the DVD deck.

Turn the TV on and select the video input source connected to the DVD Recorder+VCR.

Audio system: Turn the audio system on and select the input source connected to the DVD Recorder+VCR.

2 ***Press [EJECT] to open the disc tray.***

3 ***Load your disc in the tray with the playback side down (label side up).***

4 ***Press [EJECT] to close the tray.***

5 READING appears on the front panel display, and playback starts automatically. If playback does not start, press [PLAY (►)]. In some cases, the Disc menu might appear instead.

Playing a DVD+R (+RW)

When a DVD+RW or unfinalized DVD+R is inserted, no title is played automatically but the current TV channel displays on the screen.

If you want to play a title on the DVD+R (+RW), you must press [MENU] or [PLAY] to display the disc menu. Select a title to play then press [ENTER].

If a Disc menu is displayed

- *A Disc menu may be displayed when you load a DVD. Use the [◄ ►▲▼] buttons to select the title/chapter you want to view, then press [ENTER] to start playback. Press [TITLE] or [MENU] to return to the Disc menu.*

- *If the Parental Level feature is set and the disc is below the current Parental Level setting, the 4-digit code must be entered and/or the disc must be authorized; see 'Set Parental Level' on page 30.*
- *The DVD Recorder+VCR will not play discs with Region codes different from the DVD Recorder+VCR. The Region code for this DVD Recorder+VCR is 1 (one).*
- *Unless stated otherwise, all operations described below use the remote control. Some features may also be available in the Setup menu.*
- *A disc which is recorded by computer at high speeds (greater than or equal to 2x) may not be recognized.*
- *A disc which is recorded with unauthorized movie material may not be played.*
- *A disc which is recorded by other recorder or not recorded correctly may not be recognized or played.*

Still Picture and Frame-by-Frame Playback

1 Press [PLAY/PAUSE] during playback. The DVD Recorder+VCR will go into Pause mode.

2 You can back up or advance the picture frame-by-frame by pressing [FF (▶▶)] repeatedly during Pause mode.

Fast Forward/Backward

1 Press [REW (◀◀)] or [FF (▶▶)] during playback. The DVD Recorder+VCR will go into Search mode.

2 Press [REW] or [FF] to select the desired speed: ▶▶ X2, ▶▶ X4, ▶▶ X8, ▶▶ X16, ▶▶ X32, ► (forward) or ◄, ◀◀ X2, ◀◀ X4, ◀◀ X8, ◀◀ X16, ◀◀ X32 (backward).

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Slow Motion

Press [SLOW+] to enter Slow Motion mode. The default speed is 1/2. When you press [SLOW+] repeatedly, the speed will be set to 1/4, 1/8, and normal speed.

- *Slow reverse playback is not supported.*

Changing the Audio Language

Press [AUDIO] and then press [AUDIO] repeatedly during playback to hear a different audio language or audio track.

Subtitles

Press [SUBTITLE] and then press [SUBTITLE] repeatedly during playback to select among all available subtitle languages.

Camera Angle

If a DVD contains scenes recorded at different camera angles, angle icon displays automatically. You can select among these angles during playback.

Press [ANGLE] and then press it repeatedly during playback to select the desired angle.

The number of the current angle appears on the TV screen.

- *The Camera Angle icon is displayed on the TV screen when alternate angles are available.*

Zoom

The Zoom function allows you to magnify the video image and scroll around the enlarged image.

1. Press [ZOOM] during Play mode to activate the Zoom function.

   Each press of the [ZOOM] button changes the Zoom level as follows: X1 (normal size) → X2 → X4 → X1 (normal size)
2. Use the [◄ ►▲▼] buttons to scroll around the zoomed picture.
3. To resume normal playback, press [ZOOM] repeatedly until the X1 (normal picture) appears.

- *The Zoom function may not work on some DVDs.*
- *The Zoom function does not work in PAUSE mode.*

Repeat

1. To repeat the currently playing chapter, press [REPEAT]. REPEAT CHAPTER appears on the TV screen.
2. To repeat the currently playing title, press [REPEAT] a second time. REPEAT TITLE appears on the TV screen.
3. To repeat the whole disc, press [REPEAT] a third time. REPEAT DISC appears on the TV screen.
4. You can play in other modes (including Repeat, A-B, Shuffle, or Scan) by pressing [REPEAT] repeatedly.

- *You can repeat a scene that starts when 'Repeat A-' displays on the screen. To mark the end point, press [A-B]. Press [A-B] again to repeat the scene.*

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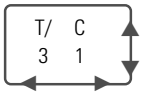
A-B

You can repeat a scene between two points (A and B):

1. Press [PLAY/PAUSE] play to the start of the desired scene.
2. Press [A-B] to mark the start point.
3. Use [FF], [NEXT] to search the end point.
4. Press [A-B] to mark the end point.
5. The marked scenes are repeated continuously until you stop the repeat by pressing [A-B] key again.

Search

1. Press [SEARCH] to display the Search menu.
2. Use [◄ ►] to move to Title (T) and Chapter (C) and use [▲▼] to set the title or chapter number.



Selecting Titles

When a disc has more than one title, you can select among all available titles as follows:

1. Press [DISPLAY] and use [▲▼] to select the Title icon. Press [ENTER] to display a submenu. Use [▲▼] to select the desired title number and press [ENTER] to confirm.

Selecting Chapters

When a title on a disc has more than one chapter, you can select among all available chapters as follows:

1. Press [PREV (⏮)] or [NEXT (⏭)] briefly during playback to select the next or previous chapter.
2. To skip directly to any chapter during playback, press [DISPLAY]. Use [▲▼] to select the Chapter icon, then press [ENTER] to display a submenu. Use [▲▼] to select the desired chapter number and press [ENTER] to confirm.

Disc Menus

Many DVDs contain Disc menus that allow you to access special features. To open a Disc menu, press [MENU]. Then use the [0-9] buttons to directly select the desired options, or use the [▲▼] buttons to highlight your desired selection and press [ENTER].

1. Press [MENU]. The Disc menu is displayed.
2. To exit the Disc menu, press [STOP] or [TV VIEW].

Title Menus

1. Press [TITLE]. If the current title has a menu, the Title menu will appear on the TV screen. Otherwise, the Disc menu may appear.
2. The Title menu may contain camera angles, spoken languages and subtitle options, as well as the chapters for the title.

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VCR Playback

Before You Begin

Press the VCR button to set the remote control to operate the VCR deck.
Turn the TV on and select the video input source connected to the DVD Recorder+VCR.
Audio system: Turn the audio system on and select the input source connected to the DVD Recorder+VCR.

Playing a VHS Tape

1 ***Insert a prerecorded video cassette.***

If the DVD Recorder+VCR is powered off, it will power on automatically.
Make sure the TIMER indicator on the front panel display is not lit. If it is, press [POWER] once.
If a tape without a safety tab is inserted, the DVD Recorder+VCR will start playback automatically.

- *If the DVD Recorder+VCR is powered on by inserting a video cassette, playback will not start automatically.*

2 ***Press [PLAY].***

The PLAY icon appears on the TV screen. It is not necessary to select the tape speed (SP, SLP) for playback. It will be automatically selected by the DVD Recorder+VCR.

3 ***Press [STOP] to stop playback.***

The STOP icon appears on the TV screen. If the tape reaches the end before [STOP] is pressed, the DVD Recorder+VCR will automatically stop, rewind, and eject the tape.

Tracking Control

Auto Tracking

The automatic tracking function adjusts the picture to remove snow or streaks. It works in the following cases:

- When a tape is played for the first time.
- When the tape speed (SP, SLP) changes.
- When streaks or snow appear because of scratches on the tape.

Manual Tracking

If noise appears on the screen during playback, press the [TRACKING +/-] buttons on the remote control until the noise on the screen is reduced.

- In case of vertical jitter, adjust these controls very carefully.
- Tracking is automatically reset to normal when the tape is ejected or the power cord is unplugged for more than 3 seconds.

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Special Playback Features

Notes on special playback features

Horizontal lines (noise bars) will appear on the TV screen. This is normal.

The audio is automatically muted during special playback modes, so there is no sound during search, slow motion, etc.

During high-speed picture search, a short time is needed to stabilize tape speed when re-entering Play mode. Slight interference may be observed during this time.

Fast Forward/Backward

This function lets you visually search forward and backward for a desired scene on your tape.

1. Press [REW] or [FF] during playback.

   Search mode will be activated.

   If the DVD Recorder+VCR is left in Search mode for more than 3 minutes, the DVD Recorder+VCR will automatically resume Play mode to protect the tape and video heads.

2. To return to normal playback, press [PLAY].

Still Picture

1. Press [PLAY/PAUSE] during playback.

   A still picture appears on the TV screen.

   If a still picture vibrates vertically, stabilize it by using the [TRACKING +/-] buttons on the remote control.

   If the DVD Recorder+VCR is left in Still mode for more than 5 minutes, the DVD Recorder+VCR will automatically enter Stop mode to protect the tape and video heads.

2. To return to normal playback, press [PLAY].

Slow Motion

1. Press [SLOW+] for Slow Motion playback.
2. Press [SLOW+] and [SLOW-] repeatedly to adjust the Slow Motion playback speed.

Counter Memory Function

This is useful if there is a section of tape you want to view immediately after recording or if you want to return to the same point several times.

1. Begin recording or playing a tape.
2. At the point you want to locate later, reset the real-time counter to 0:00:00 by pressing [CLEAR]. Continue to play or record.
3. Press [STOP] when recording or playback finishes.
4. You can make the tape automatically stop when the counter returns to about '0:00:00' by setting the counter to '0:00:00' in the 'Go-To Search' function under 'Setup' → 'Preference' → 'VCR'; see page 31.

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Other Disc Playback

Audio CD/MP3 PLAYBACK

The DVD Recorder+VCR can play audio CDs and MP3 files on CD-ROM, CD-R or CD-RW discs.

1 Insert the CD disc and close the tray. The Audio CD or MP3 CD menu appears on the TV screen after a few moments to load the disc.

2 Use [▲▼] to select a track or a file, then press [PLAY] or [ENTER].

During playback, the current track's elapsed playing time will appear on the front panel display and menu. Playback will stop at the end of the disc.

- *On the MP3 CD menu, you can display the folders on the disc. Use [▲▼◄ ►] to select the folder icon on the MP3 CD menu then press [ENTER] or [PLAY]. You can also display just the tracks in the folders. Use [▲▼◄ ►] to select a folder then press [ENTER].*

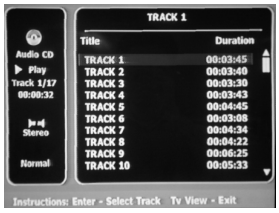
3 While playing an Audio CD, use [FF] or [REW] for 2x speed playback.

4 Use [PLAY/PAUSE] to pause playback while the disc is playing.

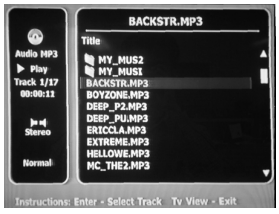
5 To stop playback at any time, press [STOP].

- *Press [REPEAT] to repeat a track (file) and press again to repeat the whole disc.*
- *If the disc contains JPEG files as well as MP3 files, you can change the Play mode to display JPEG image files by pressing [TITLE].*

••• Audio CD •••



••• MP3 •••

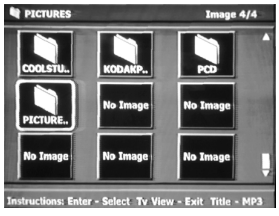


PLAYBACK

JPEG / Kodak Picture CD PLAYBACK

The DVD Recorder+VCR can display JPEG files on CD-R/RW and Kodak Picture CDs.

1 Insert your CD and close the tray. The JPEG CD or Kodak Picture CD folder tree appears.



2 If there are folders which contain JPEG files (e.g., pictures on a Kodak Picture CD), select the desired folder using [▲▼◄ ►] and press [ENTER].

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3 Select the thumbnail you want to display using [▲▼◄ ►] and press [ENTER].

4 The full size image will be displayed and a slide show starts automatically with a time interval of 10 seconds.

5 Press [NEXT] or [PREV] to manually skip to the next or previous image.

6 Press [►] (or [◄]) to rotate the image (counter) clockwise.

7 Press [STOP] to exit the slideshow.

- *If the disc contains MP3 files as well as JPEG files, you can change the Play mode to play MP3 files by pressing [TITLE].*
- *When a CD contains both MP3 files and JPEG files, the default Play mode is JPEG image files.*
- *The DVD Recorder+VCR can playback up to 1000 files per disc.*
- *MP3 files encoded below 64kbps are not supported.*

Playing MP3 Files During a Slide Show

You can enjoy a slide show while listening to MP3 music files.

1 Prepare a CD which includes both MP3 and JPEG files.

2 Insert the CD and play an MP3 file.

3 Press [TITLE] while playing the MP3 file to change the Play mode. The music playback will not stop.

4 Select an image file and press [ENTER] to start the slide show.

5 The MP3 file you selected continues to play during the JPEG slide show.

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Basic Recording

Recording from TV

Follow the instructions below to record a TV program.

1 ***Turn on the DVD Recorder+VCR and load a recordable disc or tape.***

Make sure your TV input is set to view the DVD Recorder+VCR.

2 ***Set the desired Recording mode by pressing [REC MODE] repeatedly.***

DVD: HQ (High Quality - 1 hr/disc), SP (Standard Quality - 2 hrs/disc), EP (Average Quality - 4 hrs/disc), or SLP (Low Quality - 6 hrs/disc).

VCR: SP (Standard Play), SLP (Super Long Play - 3 times SP)

3 ***If your DVD Recorder+VCR does not show a TV program, press [TV VIEW] on the remote control. Use [CH ▲ / ▼] to select the TV channel you wish to record.***

4 ***Press [AUDIO] to select the audio channel to record (Stereo, SAP, or Mono).***

The table below shows what audio channel will be recorded with different settings and different types of broadcasts.

The last column (Monitor Audio) shows what you will hear during recording. For example, if the TV broadcast is in Stereo, then setting the DVD Recorder+VCR to Stereo will record the broadcast in Stereo, and the Monitor Audio will also be in Stereo.

- If you set the audio channel to SAP, but no SAP channel is broadcast, the main audio (Mono or Stereo) will be recorded.

TV Broadcast	Selected Audio	Broadcast Audio		Monitor Audio
		L Ch	R Ch	
MONO	MONO	MONO	MONO	MONO
STEREO	STEREO	L	R	STEREO
	Left	L	L	Left
	Right	L	R	Right
	MONO	MONO	MONO	MONO
MONO+ SAP	MONO	MONO	MONO	MONO
	SAP	SAP	SAP	SAP
STEREO+SAP	STEREO	L	R	STEREO
	SAP	SAP	SAP	SAP
	MONO	MONO	MONO	MONO

5 ***Press [REC (●)] once.***

Recording will start. The REC indicator lights on the front panel display.

Recording continues until you press [STOP] or the disc is full.

To record for a fixed length of time, see One Touch Record on the next page.

6 ***Press [STOP (■)] to stop recording.***

- *The maximum number of DVD titles per disc is 49. If the DVD Recorder+VCR is powered off during DVD recording, the recording will not be saved.*
- *If a DVD+RW or unfinalized DVD+R disc is inserted in the tray, no title is played automatically after loading is finished.*
- *If you are recording to a blank DVD+R (+RW) disc, it may take up to 7 minutes for post processing after recording.*

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One Touch Record (OTR)

One Touch Recording allows you add recording time in fixed increments at the touch of a button.

1 ***Follow steps 1-4 under Recording from TV.***

2 ***Press [REC (●)] repeatedly to set the length of the recording.***

Recording starts after the first press. Each subsequent press increases the recording time by 15 minutes (DVD, to a maximum of 360 minutes) within the available space or 30 minutes (VCR, to a maximum of 240 minutes). The recording time is displayed on the front panel display.

Checking the Recording Time

Total time and recorded time are displayed on the TV screen after pressing [DISPLAY] twice. Recorded time is displayed on the front panel display.

To Pause the Recording

1 Press [PLAY/PAUSE] to pause the disc or tape during recording.

2 When you want to continue recording, press [PLAY/PAUSE] or [REC (●)].

Note

- *To quit One Touch Recording, press and hold [STOP] for 3 seconds.*
- *The DVD Recorder+VCR will automatically power off when One Touch Recording ends.*

Tip (VCR mode only)

- *Always use [PLAY/PAUSE] for best results when making changes during recording.*
  For example: To change channels during recording, first press [PLAY/PAUSE] to put the unit in Pause mode. Then select the desired channel on the DVD Recorder+VCR, and press [PLAY/PAUSE] again to resume recording.

- *You cannot record on the VCR deck and DVD deck at the same time.*
- *While the VCR is recording, DVD playback is possible. However, while the DVD is recording, all VCR functions are disabled.*

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One Touch Copy - DVD to VHS

You can copy the contents of a DVD to a VHS tape using the [DVD → VCR] button.

- *If the DVD you are attempting to copy is copy-protected, you will not be able to copy the disc. It is not permitted to copy Macrovision encoded DVDs.*
- *Copy to VCR does not work in Progressive Scan Mode.*

1 ***Insert a Disc.***

Insert the disc you wish to copy in the DVD deck and close the disc tray.

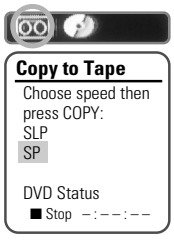
2 ***Insert a VHS Tape.***

Insert a blank VHS videotape into the VCR deck.

3 ***Select DVD mode by pressing [DVD] on the remote control or pressing [DVD/VCR] on the front panel.***

4 ***Find the place on the DVD (or Disc) from which you want to start recording using the [PLAY/PAUSE], [REW] and [FF] functions.***

For best results, pause playback at the point from which you want to record.



5 ***Press [DVD → VCR] on the front panel.***

The Copy to VCR menu appears.

6 ***Press [REC SPEED] to select the desired Record Mode:***

- SP (Standard Play)
- SLP (Super Long Play, 3 times SP).

7 ***Press [DVD → VCR] again to start copying.***

8 ***Stop the Copy Process***

To stop copying at any time, press [STOP]. You must stop the Copy process manually when the DVD movie ends, or the unit may replay and record over and over again.

COPY EDIT (DVD →VCR)

During one touch copy you can search or change REC SPEED and resume copy.

1 ***During One Touch Copy press [PLAY/PAUSE] to enter COPY EDIT mode.***

2 ***Search with [FF/REW] or [NEXT/PREV] key.***

3 ***Press [DVD → VCR] and you can change REC SPEED.***

4 ***Press [DVD → VCR] again to resume copy***

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One Touch Copy - VHS to DVD

You can copy the contents of a VHS tape to a DVD+R or DVD+RW using the [VCR → DVD] button. This allows you to archive your old VHS tapes to DVD.

If the VHS videotape you are attempting to copy is copy-protected, you will not be able to copy the tape. It is not permitted to copy Macrovision encoded tapes.

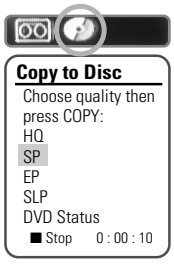
1 ***Insert a VHS Tape.***

Insert the VHS videotape you wish to copy into the VCR deck.

2 ***Insert a DVD+R or DVD+RW disc.***

Insert a blank DVD+R or DVD+RW disc in the DVD deck and close the disc tray.

- *When using a DVD+RW disc, you must initialize before copying; see page 52.*



3 ***Select VCR mode by pressing [VCR] on the remote control or pressing [DVD/VCR] on the front panel.***

4 ***Find the place on the VHS tape from which you want to start recording using the [PLAY/PAUSE], [FF] and [REW] functions.***

For best results, pause playback at the point from which you want to record.

5 ***Press [VCR → DVD] on the front panel.***

The Copy to DVD menu appears.

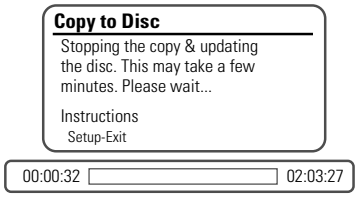
6 ***Press [REC SPEED] to select the desired Record Mode:***

- HQ (High Quality - 1 hr/disc)
- SP (Standard Quality - 2 hrs/disc)
- EP (Average Quality - 4 hrs/disc)
- SLP (Low Quality - 6 hrs/disc)

7 ***Press [VCR → DVD] again to start copying.***

8 ***Stop the Copy Process***

To stop copying at any time, press [STOP].
Copying will stop automatically when the VHS tape ends.



COPY EDIT (VCR → DVD)

During one touch copy you can search and resume copy.

1 ***Press [PLAY/PAUSE] to enter COPY EDIT mode.***

2 ***Press [PLAY/PAUSE] again to playback***

3 ***Search with [FF/REW] key.***

4 ***Press [VCR → DVD] to resume copy.***

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Timer Recording

The Timer Recording function allows you to record up to 8 programs within a period of one month.

1 ***Insert recordable media such as DVD+R ,DVD+RW, recordable VHS tape.***

2 ***Press [TIMER].***

The 'Timer Recording' menu appears.

Use [▲▼] to move to a timer recording slot, and press [ENTER] to modify it.

If you did not set the clock on the DVD Recorder+VCR, you must do so before programming a timer recording.

- Media - Choose desired media (DVD or VHS) using [▲▼].
- Ch. – Choose the desired channel, or one of the external inputs from which to record.
- Date – Choose a date up to 1 month in advance, or select a daily or weekly program.
- Start Time – Set the recording start time.
- End Time – Set the recording end time.
- Mode – Choose a Record mode.
  DVD: HQ, SP, SLP or EP
  VCR: SP, SLP

3 ***Enter the necessary information for your Timer Recording(s).***

- ◄ ► – Moves the cursor left/right.
- ▲▼ – Changes the setting at the current cursor position.
- Press [SETUP] to exit the Timer Record menu.
- Press [ENTER] after filling in all the program information.
- Press [TIMER] to display the Timer Record List.

4 ***Press [ENTER] to save the program.***

The Timer Record List will appear.

5 ***Press [SETUP] to exit the Timer Record List.***

6 ***Timer indicator will light or blinking. Power Off the DVD Recorder+VCR to start the Timer Recording.***

Timer Recording

CH No.	Date	Start	End	Mode
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---

Instructions
Enter-Edit Setup-Exit Move ▲▼

Edit Timer

Media	◯
CH No.	CH-03
Date	Jan/02 Sun
Start	01:36 AM
End	02:36 AM
Mode	HQ
Repeat	Once
Delete	

Instructions
Enter-Save Setup-Exit

Timer Recording

CH No.	Date	Start	End	Mode
◯CH03	01/02	01:36AM	02:36AM	HQ◎
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---
----	--/--	--:--	--:--	---

Instructions
Enter-Edit Setup-Exit Move ▲▼

Note

- *The Timer indicator lights on the front panel display when the DVD Recorder+VCR is ready for the Timer Recording.*
- *The tape timer indicator is blinking if any of the following meets if no recordable tape is inserted.*
  Both the disc and tape timer indicators are blinking if tape and disc timer recordings are overlapped.
- *The DVD Recorder+VCR will record the audio according to the current TV tuner setting (Stereo, Mono or SAP). Use the [AUDIO] button to set the audio before switching the DVD Recorder+VCR to Standby mode.*
- *The DVD Recorder+VCR will automatically power off when the Timer Recording ends.*
- *There is a short delay when a timer recording finishes to confirm the recorded program. If two timer recordings are set to record sequentially (one right after the other), the very beginning of the later program may not be recorded.*

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Canceling a Timer Recording

You can clear a Timer Recording any time before the recording actually starts.

- Use [▲▼] to select the program you want to erase on the Timer Recorder List, then press [ENTER] to modify it. Use [▲▼] to select 'Delete' then press [ENTER].

Stopping a Timer Recording in Progress

After a Timer Recording has started, you can still cancel the program by pressing and holding [STOP] for 3 seconds.

Timer Recording Troubleshooting

Even if a Timer Recording is set, the DVD Recorder+VCR will not record if:

- No disc is loaded.
- A non-recordable disc is loaded.
- DISC Lock is set to ON in the DISC Settings menu; see page 53.
- There are already 49 titles recorded on the disc.

You cannot enter a Timer Recording if:

- A recording is already under way.
- The start time has already passed.
- Eight Timer Recordings have already been set.

If two or more Timer Recordings overlap:

- The earlier program takes priority.
- When the earlier program finishes, the later program starts.
- If two programs are set to start at exactly the same time, the program entered first takes priority.

Confirmation is not possible when:

- The DISC Protect setting is set to ON.
- There are already 49 titles recorded on the disc.

If the disc is damaged, the recording may not complete successfully, even if the Check field shows 'Rec. OK'.

Recording Priority

- *Timer Recording and OTR (One Touch Record) have the same priority but they have lower priority than manual recording. During manual recording Timer Recording or OTR will be ignored.*

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Recording from an External Input

Recording from External Components

You can record from an external component, such as a camcorder or VCR, connected to any of the DVD Recorder+VCR's external inputs.

1 ***Make sure the component you want to record from is connected properly to the DVD Recorder+VCR; see pages 15 and 18.***

2 ***Use [▲▼] to select the external input to record from.***

- Tuner: Built-in tuner
- LINE1 : Audio/Video on front panel
- LINE2 : Audio/Video Input on back panel

3 ***Load a recordable disc or tape.***

4 ***Set the desired Recording mode by pressing [REC MODE] repeatedly.***

DVD: HQ (High Quality - 1 hr/disc), SP (Standard Quality - 2 hrs/disc), EP (Average Quality - 4 hrs/disc), or SLP (Low Quality - 6 hrs/disc).

VCR: SP (Standard Play), SLP (Super Long Play - 3 times SP)

5 ***Press [REC (●)] once.***

Recording will start. The REC indicator lights on the front panel display.

Recording continues until you press [STOP] or the disc is full.

To record for a fixed length of time, see 'One Touch Record' on page 46.

6 ***Press [STOP (■)] to stop recording.***

Note

- *If your source is copy-protected, you will not be able to record it using the DVD Recorder+VCR. See 'Copyright Notice' on page 7 for more details.*

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Editing

DISC Initialize

- If you load a blank DVD+R(+RW) disc, it will be initialized (formatted to enable recording).
- Do not start recording until disc initialization is complete.
- If you load a DVD+RW that has already been used you can record a program immediately.

Disc Menu

For recordable DVD media, such as DVD+R and DVD+RW discs, you can manage the disc using the Disc Menu.
The DVD+R Disc Menu allows you to rename your disc or finalize it so it will be compatible with most other DVD players.
The DVD+RW Disc Menu allows you to erase, lock, or unlock your disc. You can also make it compatible with most other DVD players.

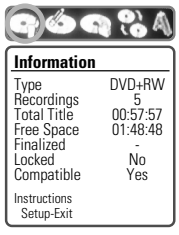
Information / Erase the disc (DVD+RW)

1 Press [MENU] to go to Disc Menu mode.

2 In Disc Menu mode, press [▲] to move to the top menu.

3 Press [►] to display the Disc Menu.

4 The Disc Menu shows you disc information, such as disc type, number of recordings, total titles, free space, etc.



5 Use [◄/►] to select the Disc Erase menu.

6 If you want to erase the whole disc, press [ENTER].

Erase the disc
Press [Enter] if you want to erase the disc. All existing recordings will be cleared.
Instructions
Enter-Confirm

7 To confirm, select 'Yes'. To cancel, select 'No'. If you select 'Yes' and press [ENTER], all the contents of the disc will be lost.

- *DVD+R discs cannot be locked (unlocked) or erased.*

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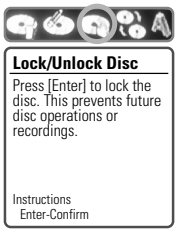
Lock/Unlock Disc (DVD+RW)

If you want to protect a disc from accidental recording, editing, or erasing, you can lock the disc. Later, if you change your mind, you can unlock the disc.

1. Use [▲] to go to the top menu.
2. Press [▶] to display the Disc Information Menu.
3. Use [◀/▶] to select 'Lock/Unlock Disc'.
4. Press [ENTER] as shown on the screen.
5. You can see the current disc status (Locked or Unlocked).


Lock/Unlock Disc
Press [Enter] to lock the disc. This prevents future disc operations or recordings.
Instructions
Enter-Confirm

6. You can change the disc status by selecting 'Yes' and pressing [ENTER].

7. The Changing Disc Status bar will appear. This process takes a few seconds.
8. After the process is finished the menu disappears automatically.

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Finalize (Make Compatible)

Finalizing a DVD+R 'locks' its recordings in place so the disc can be played on most standard DVD players or computers equipped with DVD-ROM drives.

'Make Compatible' for a DVD+RW will automatically create a menu screen for navigating the disc. This menu screen is accessible by pressing [MENU] or [TITLE].

- *Once you have finalized a DVD+R disc, you cannot edit or record anything else on that disc.*

1 Use [▲] to go to the top menu.

2 Press [▶] to display the Disc Information Menu.

3 Press [▶] and select 'Finalize' for a DVD+R, or 'Make Compatible' for DVD+RW.

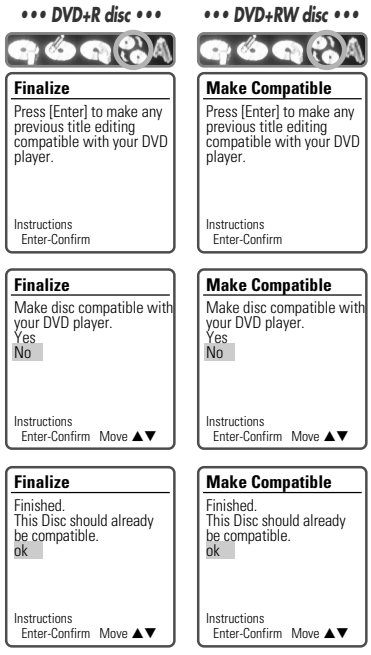
4 Press [ENTER] as shown on the screen.

5 Select 'Yes' using [▲] and press [ENTER] to finalize the disc (or make the disc compatible if it is a DVD+RW).

6 Press [ENTER] again.

7 Press [SETUP] to go to the top disc menu.

- *'Finalize (Make Compatible)' can take up to 3-4 minutes depending on the type of disc, how much is recorded on the disc, and the number of titles on the disc.*
- *If you do not make your DVD+RW disc compatible, your edits will not be recognized by other DVD players.*



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Change Disc Name

You can rename your disc to any name you choose. The default disc name is 'MY DVD'.

1. Use [▲] to go tothe top menu.
2. Press [▶] to display the Disc Information Menu.
3. Press [▶] and select 'Change Disc Name'.
4. Press [ENTER] as shown on the screen.
5. The Keyboard Menu appears.
6. Use [◄ ►▲▼] to select and press [ENTER] to enter the name of the disc.

   CLR : Clear the disc name

   SP : Space

   DEL : Delete a character

   SAVE : Save the disc name
7. Press [ENTER] again.
8. To save the name of the disc, select 'SAVE' and press [ENTER].

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Title Menu

You can manage the titles on your DVD+R/RW discs using the Title menu.

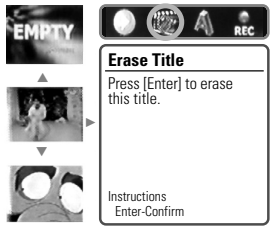
Play a Title

To play a title:

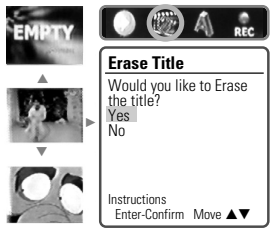
1. Press [MENU] to display the disc menu.
2. Select the desired title you want to manage using [▲▼].
3. Press [►] to display the title menu.
4. Select 'Play Title' using [◄ ►] .
5. Press [ENTER] to play the title.

Erase a Title

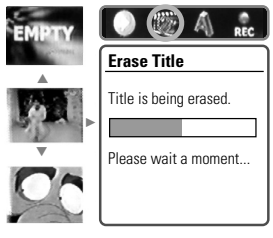
1. Follow steps 1 to 3 under 'Play Title'.
2. Select 'Erase Title' using [◄ ►].
3. Press [ENTER] to erase the title.



4. Select 'Yes' and press [ENTER] to confirm.



5. The Erase Title progress bar will be displayed. This may takes several seconds.
6. After erasing is complete, the erased title remains as an empty title.



- *You can erase titles on DVD+RW discs only.*

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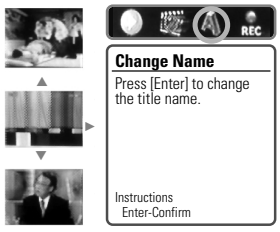
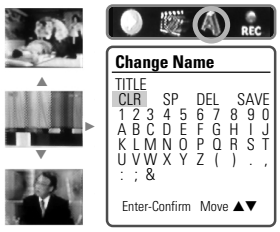
Change Name

To change the name of a title:

1. Follow steps 1 to 3 under 'Play Title'.
2. Select 'Change Name' using [◄ ►] .
3. Press [ENTER] to change the title name.



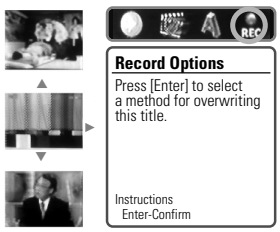
4. The Keyboard Menu will be displayed. Use [◄ ►▲▼] to select a character or function and press [ENTER].
   - CLR : Clear the whole title.
   - SP : Add a space
   - DEL : Delete a character
   - SAVE : Save the title name
5. After the new title name is complete, select 'SAVE' and press [ENTER].



Record Option

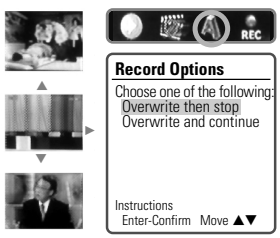
To set DVD+R and DVD+RW recording options:

1. Follow steps 1 to 3 under 'Play Title'.
2. Select 'Record Options' using [◄ ►] and press [ENTER].
3. Select your preferred record options for each disc type (DVD+R and DVD+RW):



For DVD+R

The last recorded title :	Allows you to append your new recording to the end of your last recording, or record it as a new title.
Others :	Allows you to record your new title until the end of the disc.



For DVD+RW

The last blank title :	Allows you to record your new title until the end of the disc.
The last recorded title :	Allows you to record over your last recorded title and then stop.
	Allows you to record over your last recorded title and continue recording until the end of the disc.
	Allows you to append your new recording to the end of your last recording.
Others :	Allows you to record over the title and then stop.
	Allows you to record over the title and continue recording until the end of the disc.

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Editing

When you insert a DVD+R or DVD+RW disc already recorded by your DVD Recorder+VCR, you can edit the titles and chapters in a variety of ways.

To edit a recorded title, select the title on the disc menu and press [EDIT].

The selected title will begin playing automatically.

- *After editing is complete, a DVD+RW disc will not be compatible with other DVD players until you make the disc compatible; see page 54.*

Titles and Chapters

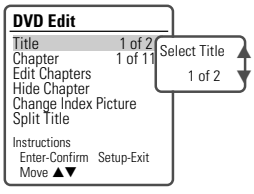
When you insert a DVD+R or DVD+RW disc already recorded by your DVD Recorder+VCR, all titles recorded on the disc appear on your screen. If a selected title has chapters, you can skip to the next or previous chapter by pressing [NEXT] or [PREV].

You can also see how many chapters are in a title by pressing [DISPLAY] during playback.

Title

To select a specific title:

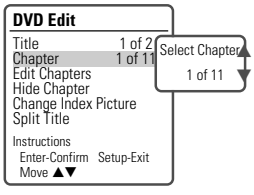
1. Use [▲▼] to select 'Title'.
2. Press [ENTER] to display the submenu.
3. Use [▲▼] to select the desired title number and then press [ENTER].



Chapter

To select a specific chapter:

1. Use [▲▼] to select 'Chapter'.
2. Press [ENTER] to display the submenu.
3. Use [▲▼] to select the desired chapter number and then press [ENTER].



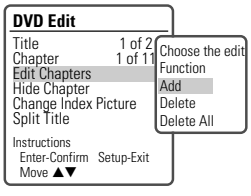
Edit Chapters

You can add a chapter marker anywhere in a title during playback.

Once the chapter is marked, you can use the chapter search feature as described above.

You can add/delete chapter markers or delete all chapter markers in a title.

1. Use [▲▼] to select 'Edit Chapters'.
2. Press [ENTER] to display the submenu.
3. Use [▲▼] to select one of the various chapter marker functions (Add, Delete, or Delete All).
4. Press [ENTER] to confirm.



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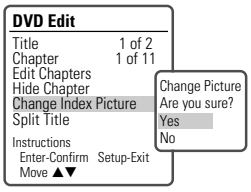
Hide Chapters

This feature allows you to hide or unhide a chapter. After hiding a chapter, the chapter is not deleted but only hidden. If a chapter is hidden then it shows 'Unhide Chapter' and vice versa.

Change Index Picture

Each title displayed in the Playlist menu is represented by a thumbnail picture taken from the start of that title or chapter. If you prefer, you can select a different still picture from within the title.

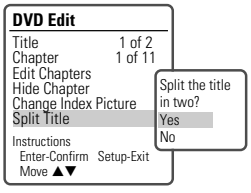
1. Use [▲▼] to select 'Change Index Picture'.
2. Press [ENTER] to display the submenu.
3. Use [▲▼] to select 'Yes' if you prefer to change the picture.
4. Press [ENTER] when the preferred picture is on your TV screen.

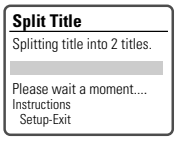


Split Title

This feature allows you to split a title into two titles.

1. Use [▲▼] to select 'Split Title'.
2. Press [ENTER] to display the submenu.
3. Use [▲▼] to select 'Yes' if you prefer to split the title.
4. Press [ENTER] to confirm. It may take a few minutes to split the title.





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Troubleshooting

Check the following guide for the possible cause of a problem before contacting customer support.

Symptom	Cause	Solution
No power.	The power cord is disconnected.	Plug the power cord into the wall outlet securely.
No picture.	The TV is not set to receive DVD Recorder+VCR signal output.	Select the appropriate video input on the TV so the picture from the DVD Recorder+VCR appears on the TV screen.
	The video cable is not connected securely.	Connect the video cable securely.
	The TV power is turned off.	Turn on the TV.
No sound.	The equipment connected with the audio cable is not set to receive DVD Recorder+VCR signal output.	Select the correct input mode on the audio receiver so you can listen to the sound from the DVD Recorder+VCR.
	The audio cables are not connected securely.	Connect the audio cables securely.
	The power on the equipment connected with the audio cable is turned off.	Turn on the equipment connected with the audio cable.
	The audio cables are damaged.	Replace with new ones.
Playback picture is poor.	The disc is dirty.	Clean the disc.
	Tape heads are dirty.	Clean the video heads.
	Tape is a rental or was recorded on another VCR.	Use [Tracking +/–] for manual tracking adjustment while a tape is playing.
DVD Recorder+VCR does not start playback.	No disc is inserted. No tape is inserted.	Insert a disc or tape. (Check that the disc indicator on the front panel display is lit.)
	An unplayable disc is inserted.	Insert a playable disc. (Check the disc type, color system, and regional code.)
	The disc is placed upside down.	Place the disc with the playback side down.
	The disc is not placed within the guide.	Place the disc on the disc tray correctly inside the guide.
	The disc is dirty.	Clean the disc.
	The Parental Control level is set.	Cancel the Parental Control function or change the rating level.
Picture from external input is distorted.	The video signal from the external component is copy-protected.	You cannot connect via the DVD Recorder+VCR. Connect the component directly to your TV.
Some channels are skipped over when using [CH▲▼].	The skipped channels were deleted with the CH. Add/Del feature.	Use the CH. Add/Del feature to restore channels. See 'Add/Remove Channels' on page 23.
Picture or sound of broadcasting channel is weak or missing.	Antenna or cables are loose.	Tighten connections or replace cable.
	Wrong Tuning Band is selected in the DVD Recorder+VCR Setup menu.	Try all 'Tuning Band' options; see page 22 for details.
Camcorder image not shown.	Camcorder is off.	Turn camcorder on and operate properly.

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Symptom	Cause	Solution
Camcorder image via A/V input to DVD Recorder+VCR is not shown on TV screen.	DVD Recorder+VCR's source is not set to LINE1/LINE2 composite.	Use INPUT to select AV input channel (LINE1/LINE2 composite).
Can't play disc recorded on this DVD Recorder+VCR on another DVD player.	The disc was not finalized (or not made compatible if using a DVD+RW).	Finalize the disc; see page 54.
	Some players will not play even a finalized disc.	No solution.
	Discs recorded with copy-once material cannot be played on other players.	No solution.
Cannot record or did not record successfully.	The remaining blank space on the disc is insufficient.	Use another disc.
	The source you are trying to record is copy-protected.	You cannot record the source.
	When setting the recording channel, the channel is tuned on your TV's tuner.	Select the channel on the DVD Recorder+VCR's built-in TV tuner.
Timer Recording not possible.	Clock in DVD Recorder+VCR is not set to correct time.	Set clock to correct time. See 'Set Clock' on page 24.
	Timer has been programmed incorrectly.	Reprogram Timer. See 'Timer Recording' on page 49.
	TIMER indicator light does not appear after programming timer.	Reprogram Timer.
Stereo Audio Record and/or Playback not present.	TV is not Stereo-compatible.	No solution.
	Broadcast program is not in stereo format.	No solution.
	DVD Recorder+VCR A/V Out jacks are not connected to TV A/V In jacks.	Make A/V connections. Stereo is available only via A/V output from DVD Recorder+VCR.
	DVD Recorder+VCR Audio/Video Out is not selected for viewing at the TV.	Select AUX or A/V source as TV input. Set TV audio channel mode to Stereo.
	DVD Recorder+VCR's TV audio channel is set to SAP or MONO.	See 'Changing the TV Audio Channel' on page 36.
Remote control does not work properly.	The remote control is not pointed at the remote sensor of the DVD Recorder+VCR.	Point the remote control at the remote sensor of the DVD Recorder+VCR.
	The remote control is too far from the DVD Recorder+VCR.	Operate the remote control within 23 ft (7m).
	There is an obstacle in the path of the remote control and the DVD Recorder+VCR.	Remove the obstacle.
	The batteries in the remote control are dead.	Replace the batteries.
	The remote control is locked.	Press and hold POWER key on font over 5 seconds.

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Moisture Condensation

Moisture condensation can occur:	In locations where moisture condensation may occur:
When the DVD Recorder+VCR is moved from a cold place to a warm place.	Keep the DVD Recorder+VCR plugged into an AC power outlet with the power on. This will help prevent condensation.
Under extremely humid conditions.	When condensation has occurred, wait a few hours for the DVD Recorder+VCR to dry before using it.

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Technical Specifications

General

Power requirements	AC 120V, 60 Hz
Power consumption	34W
Dimensions (approx.)	16.9 x 3.54 x 14.0 inches (430 x 91 x 354 mm) (w x h x d)
Mass (approx.)	13.5 lbs (6.18 kg)
Operating temperature	41°F to 95°F (5°C to 35°C)
Operating humidity	5% to 90%
Signal system	NTSC

Recording

Recording formats	DVD Video Recording, DVD-VIDEO
Recordable discs	DVD+R, DVD+RW
Recordable time	DVD ; Approx. 1 hour (HQ mode), 2 hours (SP mode), 4 hours (EP mode), 6 hours (SLP mode) VCR ; SP: 2 hours (T-120), SLP: 6 hours (T-120)/8 hours (T-160)
Video recording format	
Sampling frequency	27MHz
Compression format	MPEG 2
Audio recording format	
Sampling frequency	48kHz
Compression format	MPEG1 Layer2

VCR Specifications

Head system	4 Head Video, 2 Head Hi-Fi helical scan azimuth system
Timer	12-hour display type with AM, PM
Tape speed	SP: 33.35 mm/sec, SLP: 16.67 mm/sec, EP: 11.12 mm/sec
Tape width	12.7 mm
Rewind time	less than 2 minutes (T-120)
Antenna	75 ohms (VHF/UHF)
VHF output signal	Channel 3 or 4 (Switchable)
Channel coverage	VHF: 2-13, UHF: 14-69, CATV: 1-125 (4A, A-W, W+1 - W+84, A-5 - A-1)
Frequency range	20Hz to 20kHz
Signal-to-noise ratio	43 dB
Dynamic range	75 dB
Channel separation	45 dB

DVD Specifications

Laser system	Semiconductor laser, wavelength 650 nm
Frequency response	DVD (PCM 48 kHz): 8 Hz to 22 kHz, CD: 8 Hz to 20 kHz
Signal-to-noise ratio	More than 95 dB
Harmonic distortion	Less than 0.008%
Dynamic range	More than 90 dB

Inputs

ANTENNA IN	Antenna or CATV input, 75 Ω
VIDEO IN	1.0 Vp-p 75 Ω, sync negative, RCA jack x 2
AUDIO IN	-6 dBm more than 47 k, RCA jack (L, R) x 2

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Outputs

VIDEO OUT	1 Vp-p 75 Ω, sync negative, RCA jack x 1
S-VIDEO OUT (Y)	1.0 V (p-p), 75 Ω, negative sync, Mini DIN 4-pin x 1
	(C) 0.286 V (p-p) 75 Ω
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 Ω, negative sync, RCA jack x 1
(PROGRESSIVE SCAN)	(Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2
Audio output (digital audio)	0.5 V (p-p), 75 Ω, RCA jack x 1
Audio output (analog audio)	1.1 Vrms (1 kHz, -6 dB), 600 Ω, RCA jack (L, R) x 2
RF OUT	Channel 3 or 4 (Switchable)

Design and specifications are subject to change without notice.

Accessories

Video cable 1
Audio cable 1
RF Coaxial Cable 1
Blank DVD+RW disc 1
Remote control 1
Batteries 2

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WARRANTY

SENSORY SCIENCE LIMITED WARRANTY

Who Provides the Limited Warranty
During the warranty period, the Sensory Science Warranty Administrator will honor service for 90 days labor, 1 year parts from the original date of consumer purchase. See below for Commercial, Industrial or Educational use coverage. Remote controls are warrantied for 90 days from the date of purchase.

Who is Protected
This warranty protects the original consumer owner of this Sensory Science product.

What is Covered and How Long
This warranty covers internal operating parts and service/labor to repair or replace covered parts in this Sensory Science product for 90 days labor, 1 year parts, from the date of purchase, de ned as follows: (1) Original Consumer Retail Purchase; (2) First Rental Purchase Agreement; or (3) First Lease Purchase Agreement (the "Warranty Period"). Labor and replacement parts supplied during the Warranty Period are covered only for the remaining portion of the original Warranty Period. The Sensory Science Warranty Administrator shall have no liability for service under this warranty if non-OEM (Original Equipment Manufacturer) replacement parts are used in the repair of your Sensory Science product.

What the Owner Must Do If Service is Required
Please contact our customer service department at 1-800-736-7679 to repair or replace your product, at Sensory Science's option, if it proves to be defective in material or workmanship under normal use, during the warranty period listed above, effective from the date of original consumer purchase of the product. Repaired or replacement units are warrantied for the remaining period of the original warranty. Please retain dated sales receipt. Within the warranty period, the customer pays for inbound shipping charges and Sensory Science pays return shipping charges.

Other Warranty Coverage
Commercial, Industrial or Educational use has the same warranty coverage as stated in this warranty.

What are the Exceptions
This warranty does **not** cover: (1) Normal maintenance service, such as cleaning. (2) Damage from misuse, abuse neglect or accident, natural disasters or Acts of God. (3) Cabinetry, decorative parts, A/C adapters, knobs or buttons. (4) The foreign country use of this product. (5) Sensory Science product which has been electronically or mechanically modi ed in any way or incorporated into other products. (6) Installation and setup service adjustments. (7) Owner instruction. Your Owner's Guide provides information regarding operating instructions and user controls. For additional information, contact your authorized Sensory Science dealer.

Sensory Science is not responsible for any shipping, handling or insurance charges.

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ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY PERIOD. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This Exclusive Limited Warranty gives you speci c legal rights and you may also have other rights which vary from state to state.

SENSORY SCIENCE WARRANTY ADMINISTRATOR
7835 East McClain Drive • Scottsdale, Arizona 85260-1732
www.sensoryscience.com
1-800-736-7679

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